



Builder Top Vent Direct Vent Models: RDV4136

INSTALLER/CONSUMER SAFETY INFORMATION

**PLEASE READ THIS MANUAL
BEFORE INSTALLING AND USING
APPLIANCE**

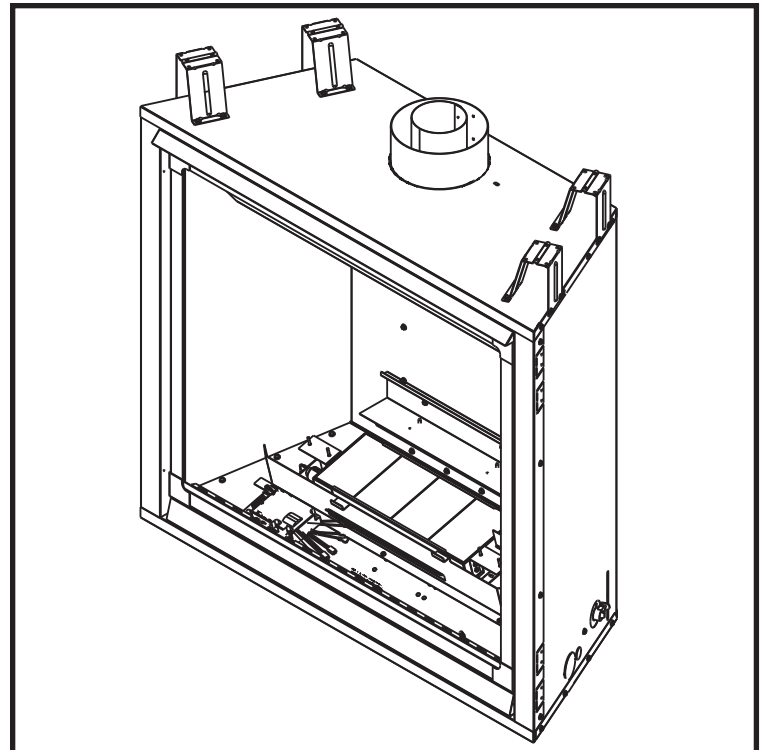
WARNING!
**IF THE INFORMATION IN THIS
MANUAL IS NOT FOLLOWED
EXACTLY, A FIRE OR EXPLOSION
MAY RESULT CAUSING
PROPERTY DAMAGE, PERSONAL
INJURY OR LOSS OF LIFE.**

FOR YOUR SAFETY
**Installation and service must be
performed by a qualified installer,
service agency or the gas supplier.**

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from your neighbor's phone. Follow the gas suppliers instructions.
- If you cannot reach your gas supplier call the fire department.

**DO NOT STORE
OR USE GASOLINE OR OTHER
FLAMMABLE VAPORS AND
LIQUIDS IN THE VICINITY OF THIS
OR ANY OTHER APPLIANCE.**



Installation Instructions and Homeowner's Manual



**INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.**

Table of Contents

PLEASE READ THE INSTALLATION & OPERATING INSTRUCTIONS BEFORE USING THIS APPLIANCE.

Thank you and congratulations on your purchase of a CFM Corporation fireplace.

IMPORTANT: Read all instructions and warnings carefully before starting installation.

Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

Installation & Operating Instructions

Important Information, Warnings, Cautions	3
Requirements for the Commonwealth of Massachusetts	4
Fireplace Dimensions	5
Locating Your Fireplace	6
Clearance to Combustibles	6
Mantels	6
Hearth	7
Framing & Finishing	7
Final Finishing	7
Gas Specifications.....	7
Gas Inlet and Manifold Pressures	7
High Elevations	7
Gas Line Installation.....	7
Remote ON/OFF Switch.....	8
EB-1 Electrical Box.....	9

General Venting Information

General Venting Information-Termination Location	11
General Information on Assembling Vent Pipes	12
How to Use the Vent Graph.....	13
Vertical Sidewall Applications & Installation	14
Below Grade Installations.....	17
Vertical Through-the-Roof Applications & Installations.....	18
Venting Components	20

Operating Instructions

Glass Information	21
Window Frame Assembly Removal.....	21
Glass Cleaning	21
Installation of Logs, Lava Rock & Ember Material	22
Flame Characteristics.....	24
Lighting & Operating Instructions	25
Troubleshooting.....	27
Fuel Conversion Instructions.....	31

Maintenance

Cleaning the Standing Pilot Control System	33
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Replacement Parts

Optional Accessories

Fan Kits	37
Wiring Instructions.....	37
Ceramic Refractory Panels	38
Porcelain Steel Back	38
Remote Controls	38
Trim Kits	38

Warranty	39
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Energide	40
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Installation & Operating Instructions

This gas fireplace should be installed by a qualified installer, preferably NFI or WETT (Canada) certified, in accordance with local building codes and with current CSA-B149.1 Installation codes for Gas Burning Appliances and Equipment. For USA Installations follow local codes and/or the current National Fuel Gas Code. ANSI Z223.1/NFPA 54.

FOR SAFE INSTALLATION AND OPERATION PLEASE NOTE THE FOLLOWING:

1. This fireplace gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this fireplace and should stay away to avoid burns or ignition of clothing.
3. **CAUTION: Due to high glass surface temperature children should be carefully supervised when in the same room as fireplace.**
4. Under no circumstances should this fireplace be modified. Parts removed for servicing should be replaced prior to operating this fireplace again.
5. Installation and any repairs to this fireplace must be performed by a qualified installer, service agency or gas supplier. A professional service person should be contacted to



inspect the fireplace annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.

6. Control compartments, burners and air passages in this fireplace should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this fireplace.
7. The venting system (chimney) of this fireplace should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapour and liquids. This fireplace should not be used as a dry-ing rack for clothing, nor should Christmas stockings or decorations be hung on or around the fireplace.
9. Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this fireplace.
10. The flow of combustion and ventilation air must not be obstructed in any way.
11. When the fireplace is installed directly on carpeting, vinyl tile or any combustible material other than wood, this fireplace must be installed on a metal or wood panel extending the full width and depth of the fireplace.

12. This fireplace requires adequate ventilation and combustion air to operate properly.
13. This fireplace must not be connected to a chimney flue serving a separate solid fuel burning fireplace.
14. When the fireplace is not in use it is recommended that the gas control valve be left in the **OFF** position.
15. These units have been approved for bedroom use.

RDV4136 Certified To

**ANSI Z21.88-2005 / CSA 2.33-2005
Vented Gas Fireplace Heaters**

WARNING: Check with your electronics manufacturer before installing a television or other electronic device above this fireplace.

This appliance may be installed in an aftermarket permanently located, manufactured home or mobile home, where not prohibited by local codes.
This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.
The RDV4136 has been approved for mobile home installations.

IMPORTANT:

PLEASE REVIEW THE FOLLOWING CAREFULLY

Remove any plastic from from parts before turning the fireplace ON.

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noises during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process.

Please ensure that your room is well ventilated-open all windows.

It is recommended that you burn your fireplace for at least ten (10) hours the first time you use it. If the optional fan kit has been installed, place the fan switch in the "OFF" position during this time.

Proposition 65 Warning: Fuels used in gas, wood-burning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.
 California Health & Safety Code Sec. 25249.6

Installation & Operating Instructions

Requirements for the Commonwealth of Massachusetts

All gas fitting and installation of this heater shall only be done by a licensed gas fitter or licensed plumber.

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontally vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, **“GAS VENT DIRECTLY BELOW, KEEP CLEAR OF ALL OBSTRUCTIONS”**.

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies “special venting systems”, the following requirements shall be satisfied by the manufacturer:

- The referenced “special venting system” instructions shall be included with the appliance or equipment installation instructions; and
- The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

Fireplace Dimensions

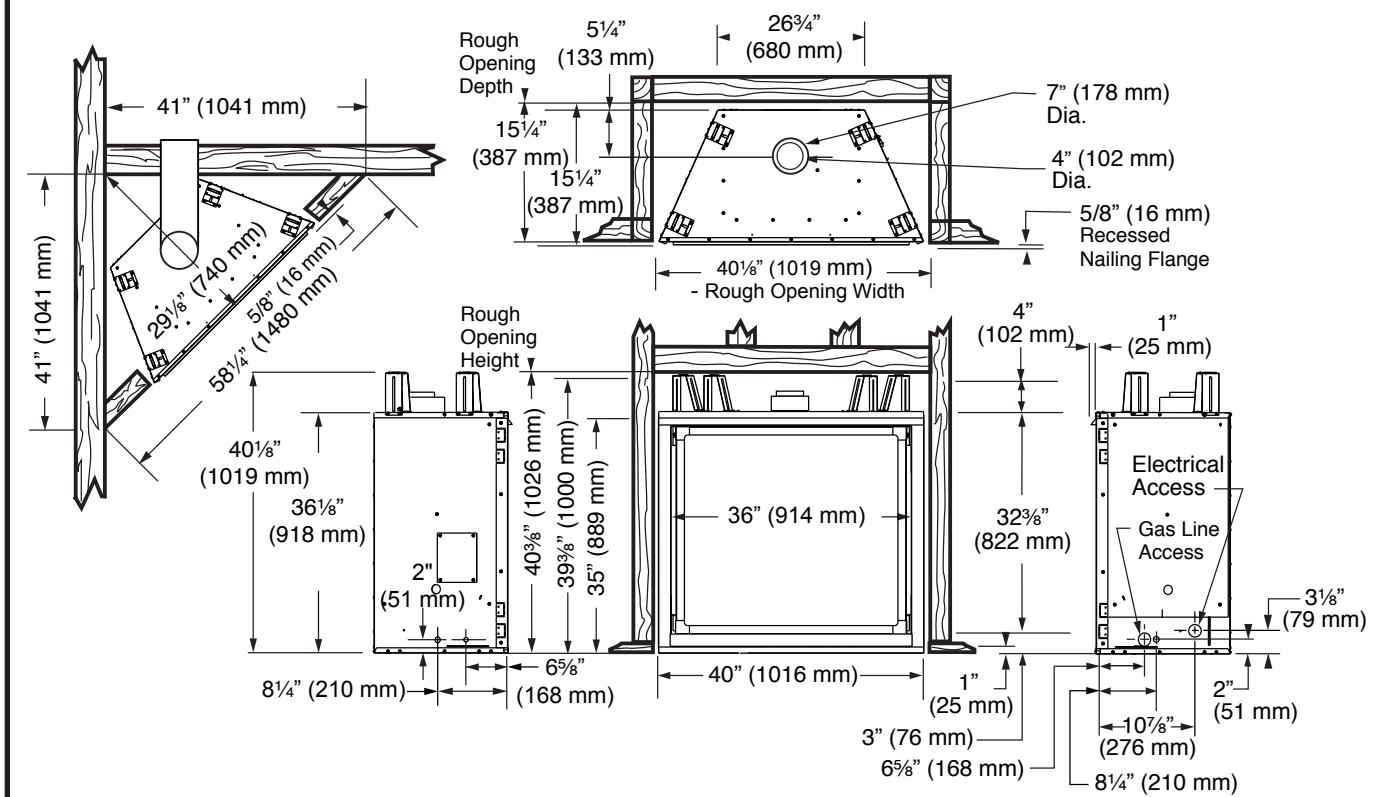


Fig. 1 Fireplace specifications and framing dimensions.

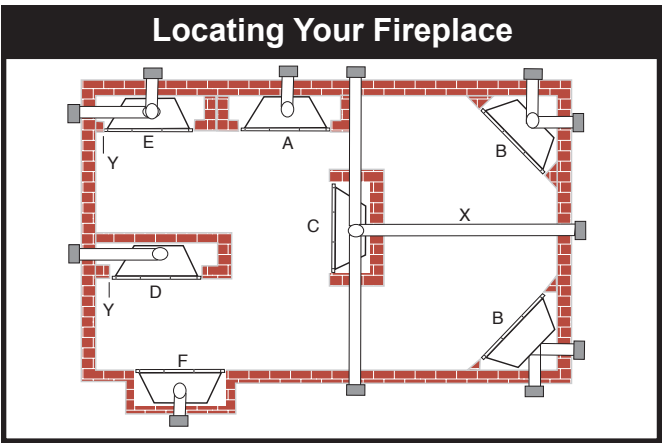


Fig. 2 Locate gas fireplace.

A - Flat on wall B - Cross corner C - **Island
D - *Room divider E - *Flat on wall corner F - Chase installation
Y - 6" minimum

Note (Fig. 2):

** Island (C) and Room Divider (D) installation is possible as long as the horizontal portion of the vent system (X) does not exceed 20' (6m). See details in manual Venting Section.

* When you install your fireplace in(D) Room divider or (E) Flat on wall corner positions (Y), a minimum of 6" (152mm) clearance must be maintained from the perpendicular wall and the front side edge of the fireplace. See (Y) in Fig. 2.

Clearance to Combustibles

Top of Unit to Ceiling 36" (914 mm)

Appliance

Top 0" (0 mm)
Bottom..... 0" (0 mm)
Side..... 0" (0 mm)
Back 0" (0 mm)

Venting

Concentric sections of DV Vent

Top, bottom & sides 1" (25 mm)

Offset sections of DV Vent

Top 2" (51 mm)
Bottom & sides..... 1" (25 mm)

Mantels

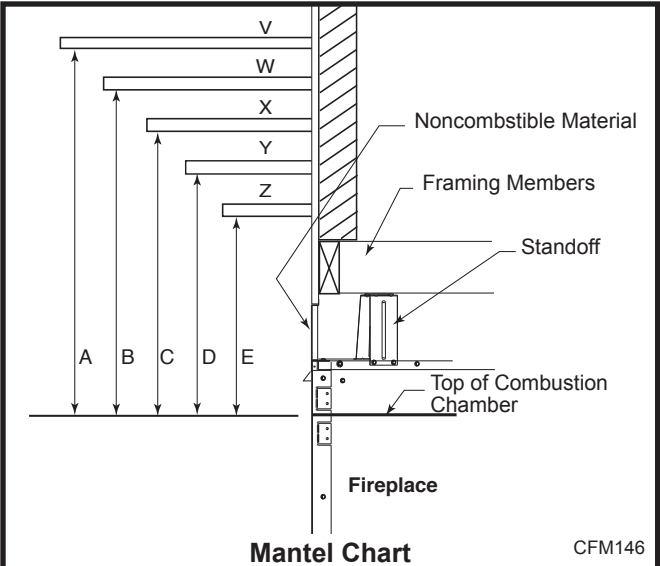
The height that a combustible mantel is fitted above the fireplace is dependent on the depth of the mantel. This also applies to the distance between the mantel leg (if fitted) and the fireplace.

For the correct mounting height and widths refer to Figures 3a and 3b.

The fitting of a bay window trim kit does not effect the distances and reference points referred to in the diagram and chart.

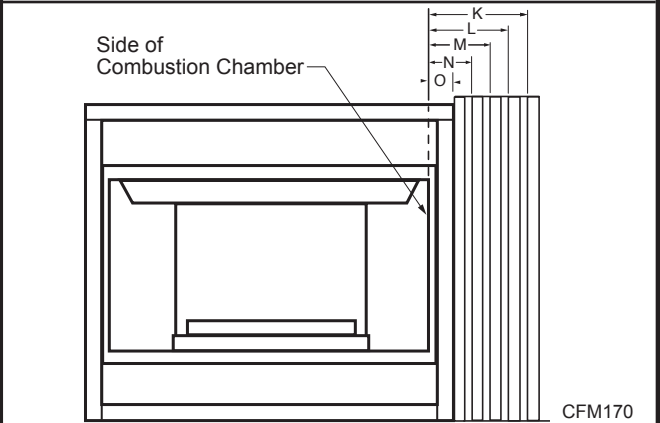
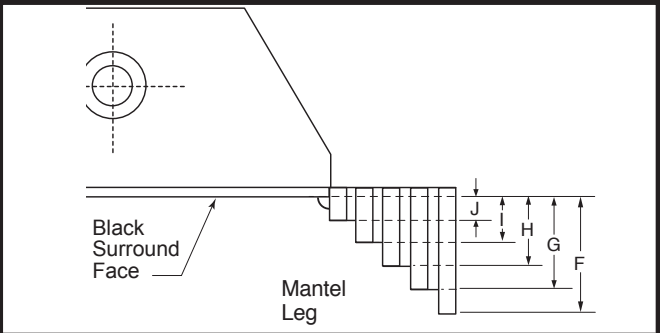
Noncombustible mantels and legs may be installed at any height and width around the appliance.

When using paint or lacquer to finish the mantel, such paint or lacquer must be heat resistant to prevent discoloration.



Mantel Chart			
CFM146			
Ref.	Mantel Shelf or Breast Plate Depth	Ref.	Mantel from Top of Comb. Chamber
V	10" (254 mm)	A	19" (483 mm)
W	8" (203 mm)	B	17" (432 mm)
X	6" (152 mm)	C	15" (381 mm)
Y	4" (101 mm)	D	13" (330 mm)
Z	2" (51 mm)	E	11" (279 mm)

Fig. 3a Combustible mantel minimum installation.



Mantel Leg From Side of Comb. Opening			
Ref.	Mantel Leg Depth	Ref.	Mantel Leg From Side of Comb. Opening
F	10" (254 mm)	K	11½" (292 mm)
G	8" (203 mm)	L	9½" (241 mm)
H	6" (152 mm)	M	7½" (191 mm)
I	4" (101 mm)	N	5½" (140 mm)
J	2" (51 mm)	O	3½" (89 mm)

Fig. 3b Combustible mantel leg minimum installation.

Hearth

A hearth is not mandatory but is recommended for aesthetic purposes. We recommend a noncombustible hearth which projects out 12" (305mm) or more from the front of the fireplace.

Cold climate installation recommendation:



When installing this unit against a non-insulated exterior wall or chase, it is mandatory that the outer walls be insulated to conform to applicable insulation codes.

Framing and Finishing



Check fireplace to make sure it is levelled and properly positioned.

To mount the appliance:

1. Choose the location.
2. This unit comes with four (4) flanges pre-mounted on both sides of the fireplace to allow two different drywall thicknesses to be used. Flange "A" is for 1/2" drywall while flange "B" is for 5/8" drywall.
3. Bend the desired flanges out 90° on both sides of the fireplace. Slide the fireplace into the framed opening until the flanges contact the front surfaces of the framing. Level the unit and secure it firmly in place.

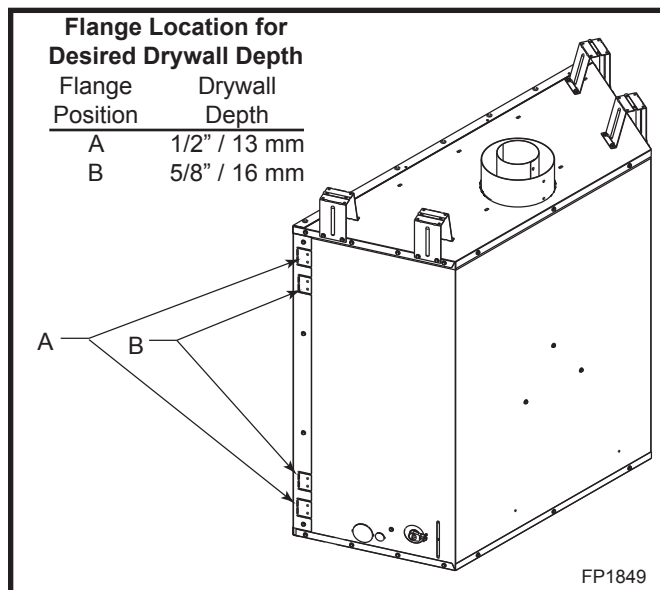


Fig. 4 Drywall flange location.

Final Finishing

Noncombustible materials such as brick or tile may be extended over the edges of the face of the appliance. **DO NOT** cover any vent or grille panels.

If a Trim Kit is going to be installed on the fireplace, the brick or tile will have to be installed flush with the edges of the appliance.

Gas Specifications

Model	Gas Fuel	Control	Max. Input BTU/h	Min. Input BTU/h
RDV4136RN	Natural Gas	Millivolt Hi/Lo	24,000	15,300
RDV4136RP	Propane	Millivolt Hi/Lo	24,000	19,500
RDV4136IN	Natural Gas	6 Volt Hi/Lo	24,000	15,300
RDV4136IP*	Propane	6 Volt Hi/Lo	24,000	19,500

*with conversion kit

Gas Inlet and Manifold Pressures

	Natural	LP (Propane)
Inlet Minimum	5.5" w.c.	11.0" w.c.
Inlet Maximum	14.0" w.c.	14.0" w.c.
Manifold Pressure	3.5" w.c.	10.0" w.c.

High Elevations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370m) above sea level.

For elevations above 4,500 feet (1,370m) in USA, installations must be in accordance with the current ANSI Z223.1/NFPA 54 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4,500 feet (1,370m).

Gas Line Installation



When purging gas line, the front window frame must be removed.

The gas pipeline can be brought in through the rear of the fireplace as well as the bottom. Knockouts are provided on the bottom behind the valve to allow for the gas pipe installation and testing of any gas connection. It is most convenient to bring the gas line in from the rear right side of the valve as this allows fan installation or removal without disconnecting the gas line.

The gas line connection can be made with properly tinned 3/8" copper tubing, 3/8" rigid pipe or an approved flex connector. Since some municipalities have additional local codes, it is always best to consult your local authority and the National Fuel Gas Code, ANSI Z223.1/NFPA 54 in the USA or the CSA-B149.1 installation codes.

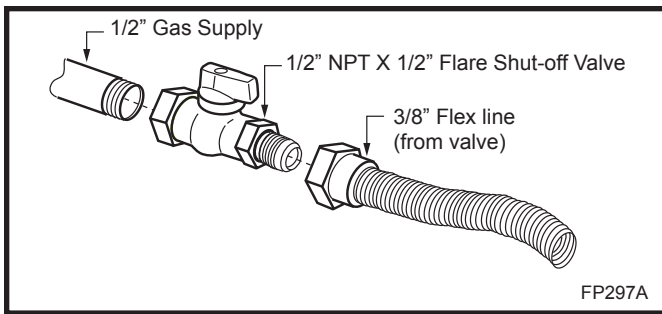


Fig. 5 Typical gas supply installation.



Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

The gas control is equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

When using copper or flex connector use only approved fittings. Always provide a union when using black iron pipe so that the gas line can be easily disconnected for burner or fan servicing. See gas specifications for pressure details and ratings.

The fireplace valve must not be subjected to any test pressures exceeding 1/2 psi. Isolate or disconnect this or any other gas appliance control from the gas line when pressure testing.

Remote ON/OFF Switch

Installation: RN/RP Models

1. Thread the wiring through holes on the end panels of appliance. Take care not to cut wire or insulation on metal edges. Route the wire to a conveniently located receptacle box.
2. Attach the wire to the ON/OFF switch and install the switch into the receptacle box.
3. Connect the other ends of the wire to the gas control valve. (Fig. 6)

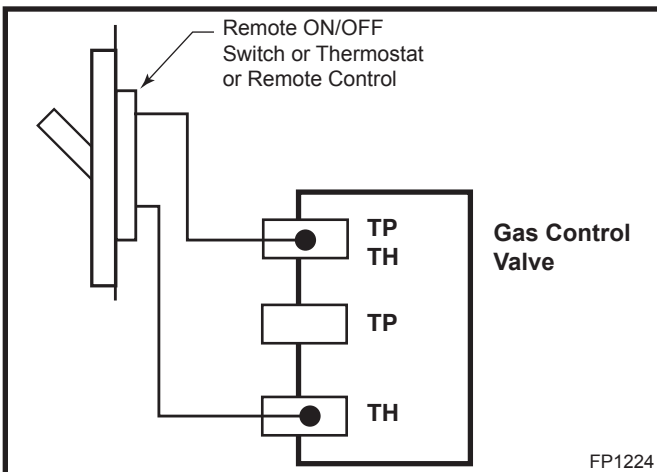


Fig. 6 Remote switch wiring diagram for RN/RP models.

Remote ON/OFF Switch

Installation: IN/IP Models

1. Thread the wiring through holes on the end panels of appliance. Take care not to cut wire or insulation on metal edges. Route the wire to a conveniently located receptacle box.
2. Attach the wire to the ON/OFF switch and install the switch into the receptacle box.
3. Connect the two (2) wires from wall switch to the two (2) brown wires from the control module marked SW1. Be sure to move the Remote/Off switch on the control module to the OFF position. (Fig. 7)

NOTE: The remote does not work in this configuration.

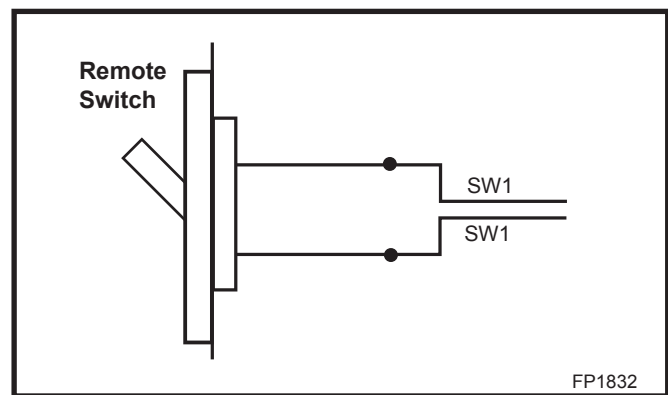


Fig. 7 Remote switch wiring for IN/IP models.

EB-1 Electrical Box



The fireplace, when installed, must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code.



For USA installations follow local codes and the national electrical code ANSI/NFPA No. 70.



It is strongly suggested that the wiring of the EB-1 Electrical Junction Box be carried out by a licensed electrician.



Ensure that the power to the supply line has been disconnected before commencing this procedure.

The EB-1 Electrical junction box has been fitted standard on this model to allow for the easy connection of an optional fan kit.

To connect the EB-1 box to the house electrical supply follow the steps below.

1. Unscrew retaining screw from EB-1 base plate (Fig. 8) and remove the EB-1 assembly from the appliance.
2. Remove the front cover of the EB box.
3. Remove the plug socket assembly from the EB-1 box.
4. Feed the supply line in through the EB-1 opening in the side of the appliance and then through the back of the EB-1 assembly. (Fig. 8)
5. Connect the black wire of the power supply line to the brass screw (polarized) of the socket assembly.
6. Connect the white wire of the power line to the chrome screw of the socket assembly.
7. Connect the ground wire of the supply line to the green screw of the socket assembly.
8. Refit the socket assembly back into the electrical box and replace the cover plate. Secure the cable with the clamp on the outside of the EB-1 base plate and refit the EB-1 assembly to the unit with the screw removed in step 1.

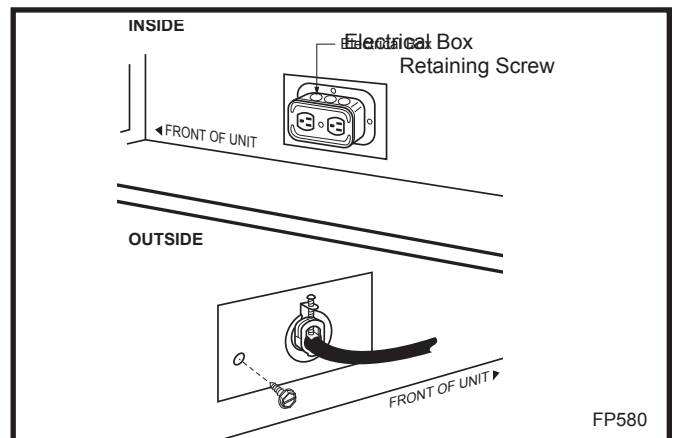


Fig. 8 EB-1 receptacle.

General Venting

Your fireplace is approved to be vented either through the side wall, or vertically through the roof.

- **Only CFM Corporation venting components specifically approved and labelled for this fireplace may be used.**
- Vent terminations shall not be recessed into a wall or siding.
- Horizontal venting which incorporates the twist lock pipe must be installed on a level plane without an inclining or declining slope.
- Horizontal venting which incorporates the use of flex venting shall have an inclining slope from the unit of 1" (25 mm) per 24" (610 mm).

There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" (610 mm) from the front of the termination hood.

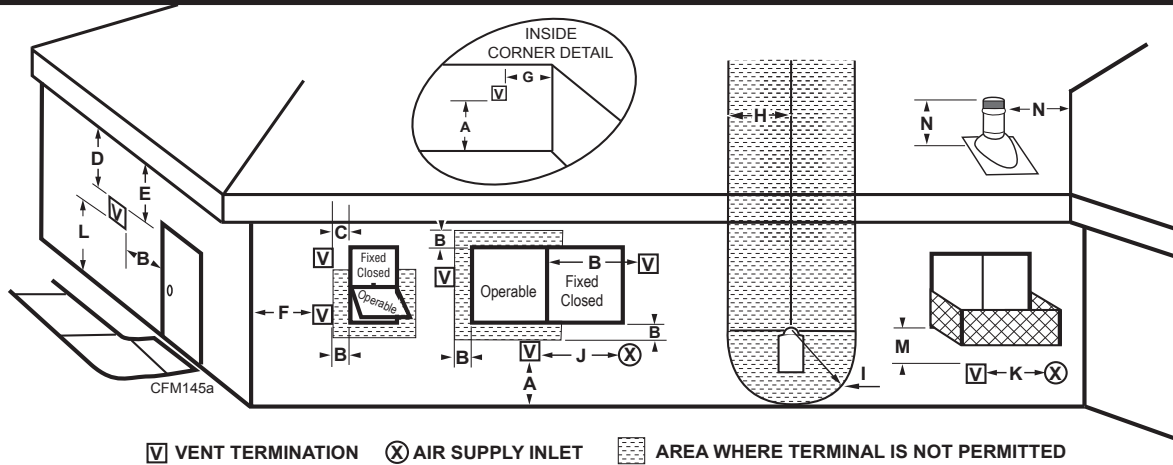
Do not locate termination hood where excessive snow or ice build up may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

Location of Vent Termination

It is imperative the vent termination be located observing the minimum clearances as shown on the next page.

*Check with local codes or in absence of same with CSA-B149.1 Installation Codes (1991) for Canada or follow the current National Fuel Gas Code, ANSI Z223.1/NFPA 54 for installations in the USA.

General Venting Information - Termination Location



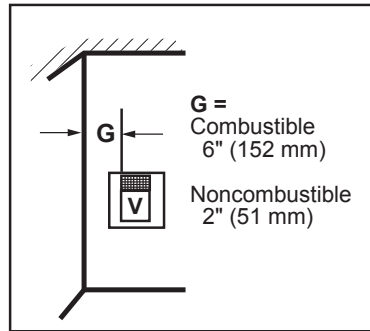
Canadian Installations ¹		US Installations ²
A = Clearance above grade, veranda, porch, deck, or balcony	12" (30cm)	12" (30cm)
B = Clearance to window or door that may be opened	6" (15cm) for appliances < 10,000 Btuh (3kW), 12" (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36" (91cm) for appliances > 100,000 Btuh (30kW)	6" (15cm) for appliances < 10,000 Btuh (3kW), 9" (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12" (30cm) for appliances > 50,000 Btuh (15kW)
C = Clearance to permanently closed window	12" (305mm) recommended to prevent window condensation	12" (305mm) recommended to prevent window condensation
D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2' (610mm) from the center line of the terminal	18" (458mm)	18" (458mm)
E = Clearance to unventilated soffit	12" (305mm)	12" (305mm)
F = Clearance to outside corner	see next page	see next page
G = Clearance to inside corner (see next page)	see next page	see next page
H = Clearance to each inside of center line extended above meter/regulator assembly	3' (91cm) within a height of 15' (5m) above the meter/regulator assembly	3' (91cm) within a height of 15' (5m) above the meter/regulator assembly
I = Clearance to service regulator vent outlet	3' (91cm)	3' (91cm)
J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliances	6" (15cm) for appliances < 10,000 Btuh (3kW), 12" (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36" (91cm) for appliances > 100,000 Btuh (30kW)	6" (15cm) for appliances < 10,000 Btuh (3kW), 9" (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12" (30cm) for appliances > 50,000 Btuh (15kW)
K = Clearance to a mechanical air supply inlet	6' (1.83m)	3' (91cm) above if within 10 feet (3m) horizontally
L = Clearance above paved sidewalk or paved driveway located on public property	7' (2.13m)†	7' (2.13m)†
M = Clearance under veranda, porch, deck or balcony	12" (30cm)‡	12" (30cm)‡
N = Clearance above a roof shall extend a minimum of 24" (610mm) above the highest point when it passes through the roof surface, and any other obstruction within a horizontal distance of 18" (450mm).		
<p>1 In accordance with the current CSA-B149 Installation Codes</p> <p>2 In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes</p> <p>† A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings</p> <p>‡ only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor:</p> <p>NOTE: 1. Local codes or regulations may require different clearances.</p> <p>2. The special venting system used on Direct Vent Fireplaces are certified as part of the appliance, with clearances tested and approved by the listing agency.</p> <p>3. CFM Corporation assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.</p>		

Fig. 9 Vent termination locations.
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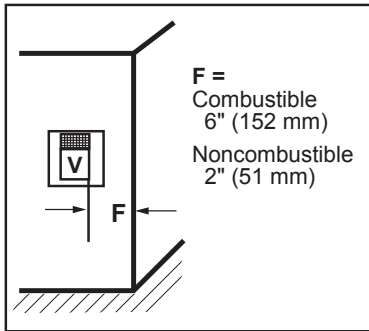
Termination Clearances

Termination clearances for buildings with combustible and noncombustible exteriors.

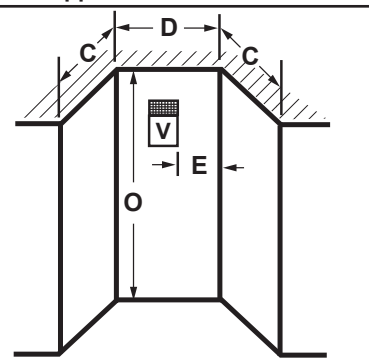
Inside Corner



Outside Corner

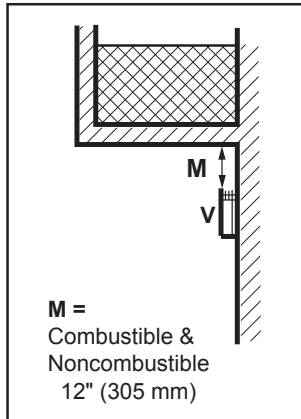


Alcove Applications*

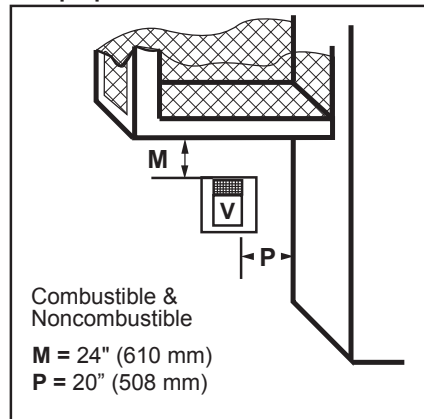


E = Min. 6" (152 mm) for non-vinyl sidewalls
Min. 12" (305 mm) for vinyl sidewalls
O = 8' (2.4 m) Min.

Balcony - with no side wall



Balcony - with perpendicular side wall



No. of Caps	D _{Min.}	C _{Max.}
1	3' (914 mm)	2 x D _{Actual}
2	6' (1.8 m)	1 x D _{Actual}
3	9' (2.7 m)	2/3 x D _{Actual}
4	12' (3.7 m)	1/2 x D _{Actual}

D_{Min.} = # of Termination caps x 3
C_{Max.} = (2 / # termination caps) x D_{Actual}

584-15

***NOTE:** Termination in an alcove space (spaces open only on one side and with an overhang) is permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. 1. There must be a 3' (914 mm) minimum between termination caps. 2. All mechanical air intakes within 10' (1 m) of a termination cap must be a minimum of 3' (914 mm) below the termination cap. 3. All gravity air intakes within 3' (914 mm) of a termination cap must be a minimum of 1' (305 mm) below the termination cap.

Fig. 10 Termination clearances.

General Information on Assembling Vent Pipes

Canadian Installations:

The venting system must be installed in accordance with the current CSA-B149 .1 installation code.

USA Installations:

The venting system must conform with local codes and/or the current National Fuel Gas code ANSI Z223.1/ NFPA 54.

Only venting components manufactured by CFM Corporation can be used in Direct Vent systems.

Flex Vent Pipes

Before joining the flex vent pipe to the unit, apply a bead of high temperature sealant* (provided) to the 4" pipe exiting the fireplace. Secure flex vent pipe in place with a hose clamp (provided).

*Be sure the flex pipe overlaps at least 1" (25 mm) onto the collars of the fireplace and termination. If the termination has an internal bead, be sure to overlap and secure 1" (25 mm) past the bead.

* Be sure the vent is actually crushed before proceeding. Apply a tug to be sure the vent will not slip off the collars.

Repeat process with 7" flex vent pipe. The same procedure must be performed on the vent side.

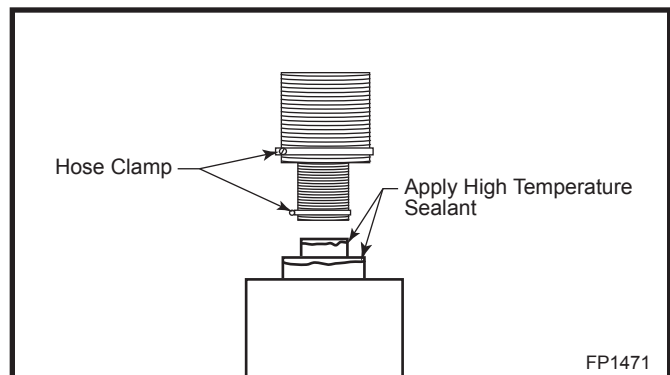


Fig. 11 Apply high temperature sealant to 4" and 7" pipes.

Twist Lock Pipes

When using CFM Corporation twist-lock pipe it is not necessary to use sealant on the joints. The only areas of the venting system that need to be sealed with high temperature silicone sealant are the sliding joints of any telescopic vent section used in the system.

To join the twist lock pipes together, simply align the beads of the male end with the grooves of the female end, then while bringing the ends together, twist the pipe until the flange on the female end contacts the external flange on the male end. It is recommended that you secure the joints with three (3) sheet metal screws, however this is not mandatory with twist lock pipe.

To make it easier to assemble the joints we suggest putting a lubricant (Vaseline or similar) on the male end of the twist lock pipe prior to assembly.

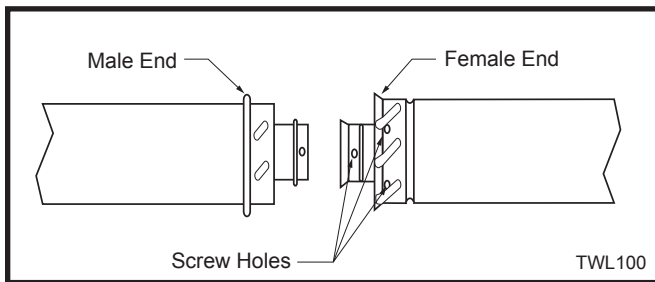


Fig. 12 Twist-lock pipe joints.

How to Use the Vent Graph

The vent chart should be read in conjunction with the following vent installation instructions to determine the relationship of the vertical and horizontal dimensions of the vent system.

1. Determine the height of the center of the horizontal vent pipe exiting through the outer wall. Using this dimension on the Sidewall Vent Graph. (Fig. 13) locate the point intersecting with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the fireplace in accordance with same.

Example A:

If the vertical dimension from the floor of the fireplace is 11' (3.4 m) the horizontal run to the face of the outer wall must not exceed 14' (4.3 m).

Example B:

If the vertical dimension from the floor of the unit is 7' (2.14 m), the horizontal run to the face of the outer wall must not exceed 8½' (2.6 m).

NOTE: The RDV4136 fireplace is shipped with a deflector behind the rear log support. If the fireplace is set up with an extended vent configuration, it may be necessary to loosen the two (2) screws securing the rear log

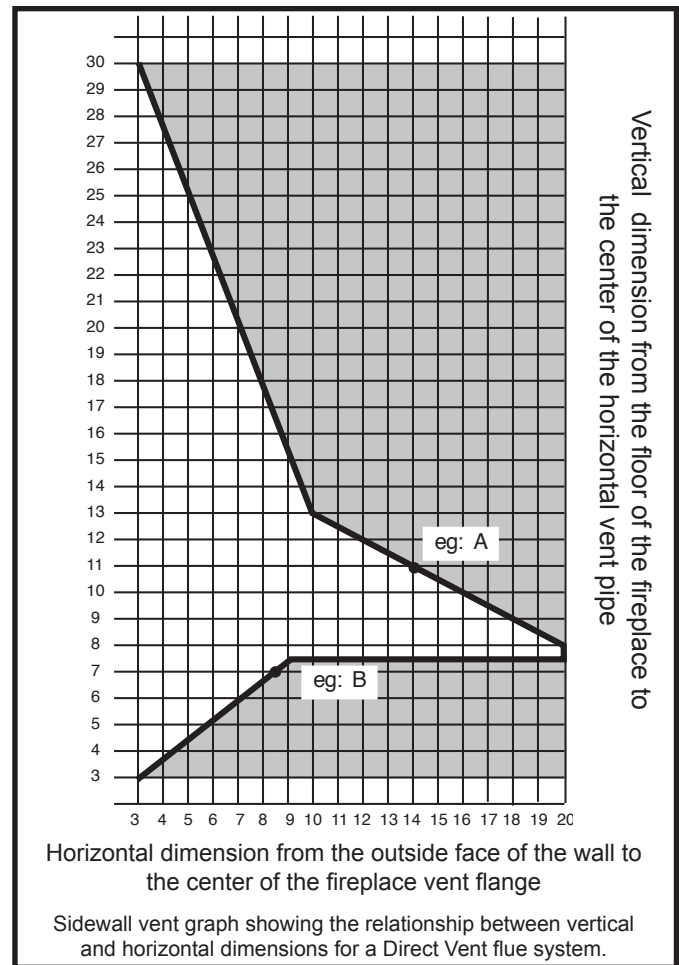


Fig. 13 Sidewall venting graph. (Dimensions in feet)

support to the back of the fireplace and drop the deflector down over the air inlet ports. There are five (5) holes on each side of the deflector. For extended vent runs, hole 'C' works the best. (Fig. 14) This is a guide. It may be necessary to adjust the deflector in a different hole location depending on your installation. Be sure there is no lifting or ghosting of the flame.

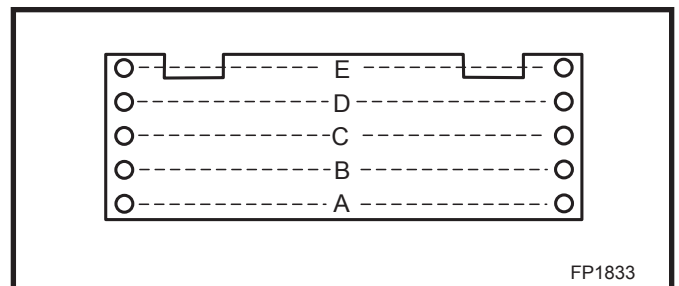


Fig. 14 Deflector holes.

In conjunction with the deflector over the air inlet, there is a flue baffle. The baffle is shipped under the fireplace. Remove the two (2) screws from the flue deflector and secure the baffle to the deflector. (Fig. 15)

Be sure to install the baffle as shown in Figure 16. Close half the opening when used on extended vent runs. Be sure there is no lifting or ghosting of the flame.

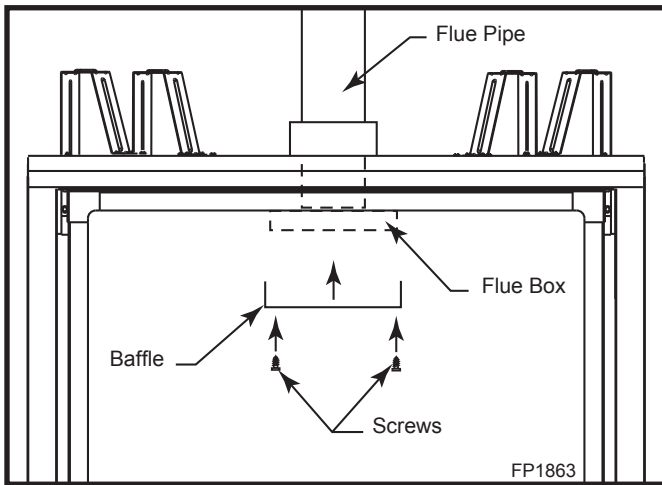


Fig. 15 Install baffle to the deflector.

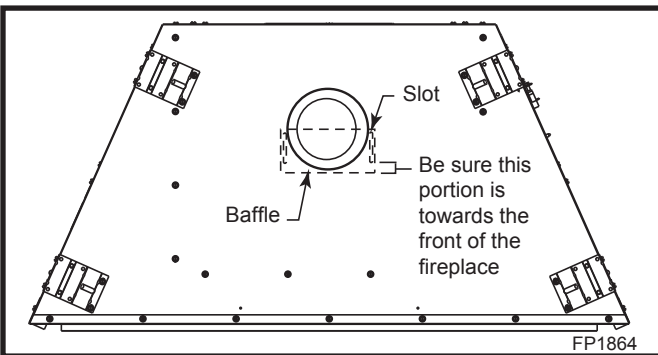


Fig. 16 Baffle in position, top view.

Vertical Sidewall Applications



Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The vent graph showing the relationship between vertical and horizontal side wall venting will help to determine the various dimensions allowable.



Minimum clearance between vent pipes and combustible materials is one 1" (25mm) on top, bottom and sides unless otherwise noted.

When the vent termination exits through foundations less than 20" (508 mm) below siding outcrop, the vent pipe must flush up with the siding.

It is always best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length of vent pipe from the flue collar of the fireplace to the face of the outer wall.

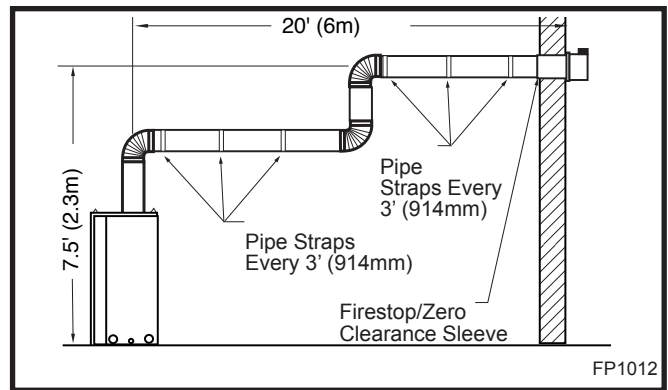


Fig. 17 Support straps for horizontal runs.

Horizontal plane means no vertical rise exists on this portion of the vent assembly.

- The maximum number of 90° elbows per side wall installations is three (3).
 - If a 90° elbow is used in the horizontal vent run (level height maintained) the maximum horizontal vent length is reduced by 36" (914 mm). This does not apply if the 90° elbows are used to increase or redirect a vertical rise.
- Example:** According to the chart the maximum vertical vent length in a system with a 7.5' (2.3 m) horizontal rise is 20' (6 m) and if a 90° is required in the horizontal vent it must be reduced to 17' (5.2 m). In Figure 19, Dimension A plus B must not be greater than 17' (5.2 m).
- The maximum number of 45° elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.

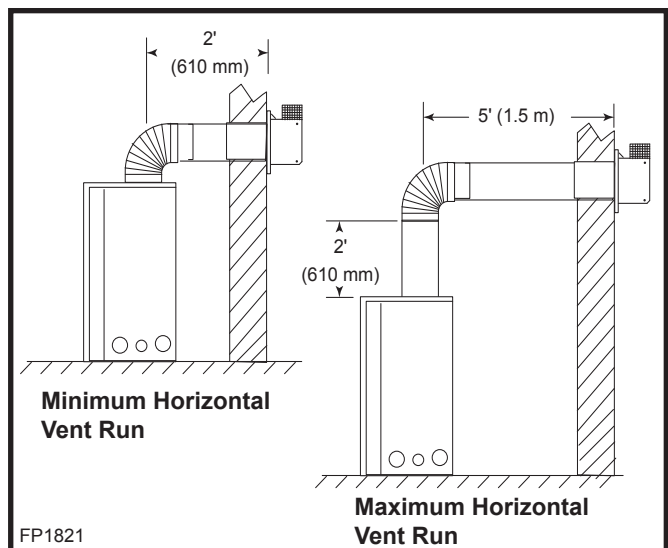


Fig. 18 Horizontal vent run.

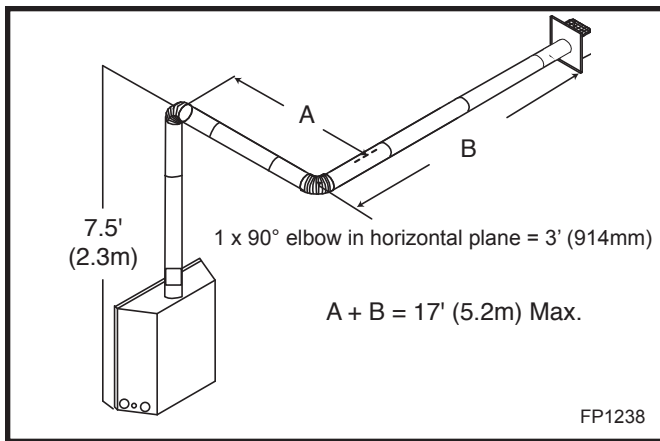


Fig. 19 Maximum vent run with elbows.

- For each 45° elbow installed in the horizontal run, the length of the horizontal run **MUST** be reduced by 18" (457 mm). This does not apply if the 45° elbows are installed on the vertical part of the vent system.
- The maximum number of elbow degrees in a system is 270°. (Fig. 20)

Vertical Sidewall Installation Twist Lock Pipe

STEP 1

Locate vent opening on the wall. It may be necessary to first position the fireplace and measure to obtain hole location. Depending on whether the wall is combustible or noncombustible, cut opening to size. (Fig. 21)
For combustible walls first frame in opening.

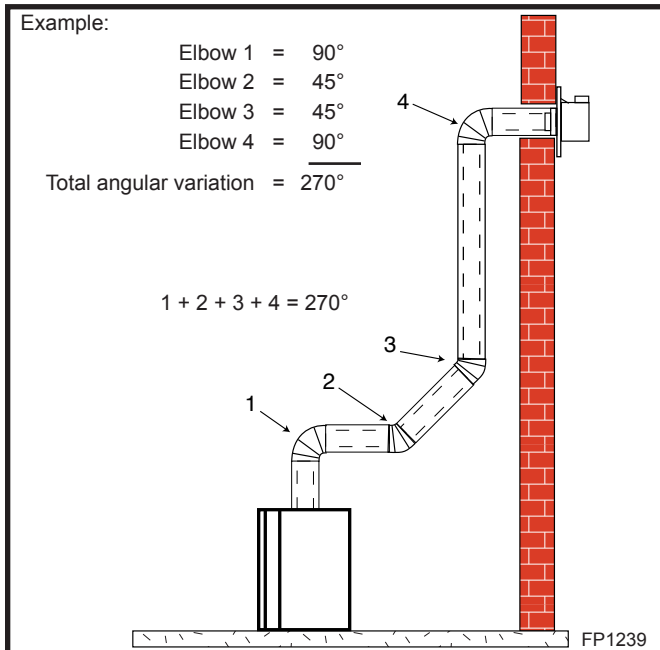


Fig. 20 Maximum number of elbow degrees.

NOTE: When using flex vent, the opening will have to be measured according to the 1/2" (13 mm) rise in 12" (305 mm) vent run.

Combustible Walls: (Fig. 21) Cut a 9 3/8" H x 9 3/8" W (240 x 240 mm) hole through the exterior wall and frame as shown.

Noncombustible Walls: (Fig. 21) Hole opening must be 7 1/2" (190 mm) in diameter.

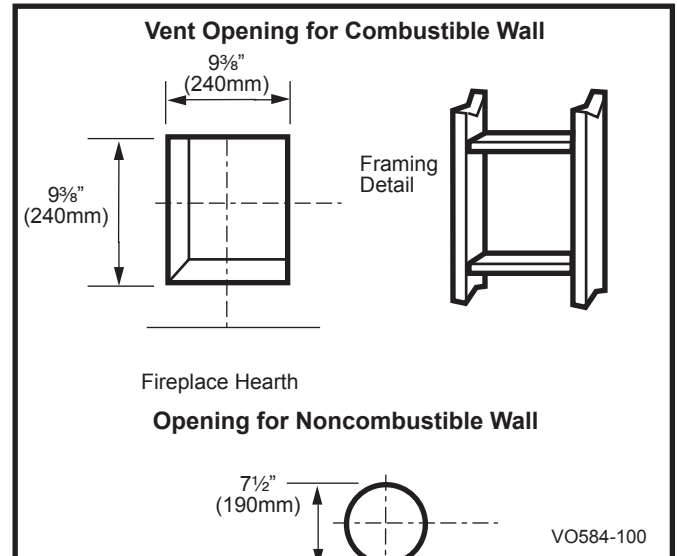


Fig. 21 Locate vent opening on wall.

STEP 2

Measure wall thickness and cut zero clearance sleeve parts to proper length (MAXIMUM 12"/305 mm). Assemble sleeve and attach to firestop with #8 sheet metal screws (supplied). Install firestop assembly. (Fig. 22)



Zero clearance sleeve is only required for combustible walls.

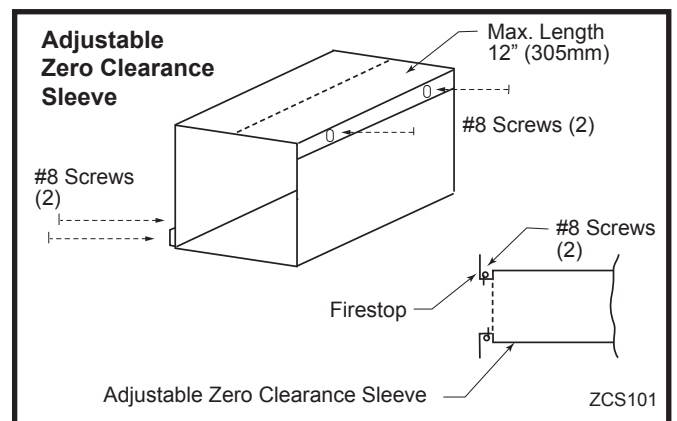


Fig. 22 Adjustable zero clearance sleeve.

STEP 3

Place fireplace into position. (Fig. 23) Measure the vertical height (X) required from the base of the flue collars to the center of the wall opening.

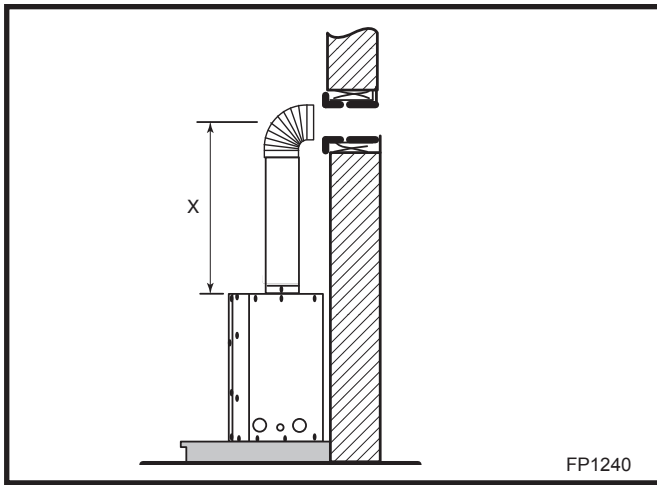


Fig. 23 Vertical height requirement.

STEP 4

Attach the appropriate venting component(s) to the inner and outer flue collars of the fireplace using three (3) screws. (Fig. 24) Follow with the installation of the inner and outer elbow. Again secure joints with three (3) sheet metal screws.

STEP 5

Measure the horizontal length requirement including a 2" (51 mm) overlap, ie from the elbow to the outside wall face plus 2" (51 mm) (or the distance required if installing a second 90° elbow). (Fig. 24)



Always install horizontal venting on a level plane.

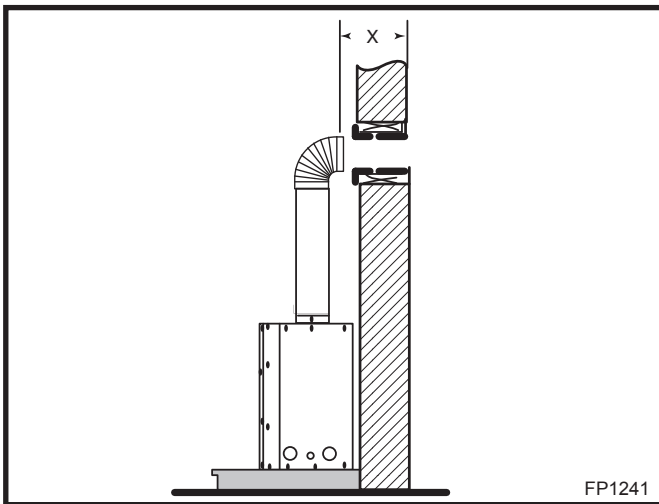


Fig. 24 Horizontal length requirement.

STEP 6

Use appropriate length of pipe sections - telescopic or fixed - and install the horizontal vent sections. The sections which go through the wall are packaged with the starter kit, and can be cut to suit if necessary. (Fig. 25)



Sealing vent pipe and firestop gaps with high temperature sealant will restrict cold air being drawn in around fireplace.

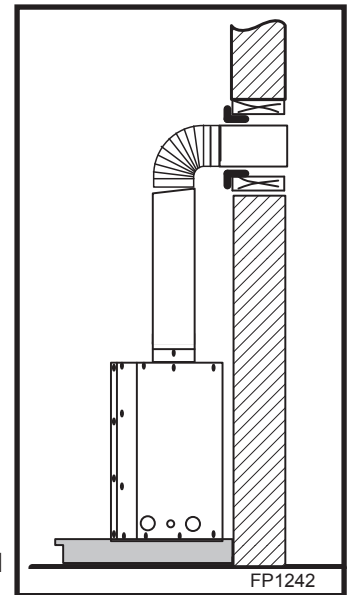


Fig. 25 Through the wall.

STEP 7

Guide the vent terminations 4" and 7" collars into their respective vent pipes. Double check that the vent pipes overlap the collars by 2" (51 mm). Secure the termination to the wall with screws provided and caulk around the wall plate to weatherproof. (Fig. 26) As an alternative to screwing the termination directly to the wall you may also use expanding plugs or an approved exterior construction adhesive. You may also attach the termination with screws through the inner body into the 4" (102 mm) vent pipe however for this method you must extend the 4" (102 mm) pipe approximately 6" (152 mm) beyond the outer face of the wall.

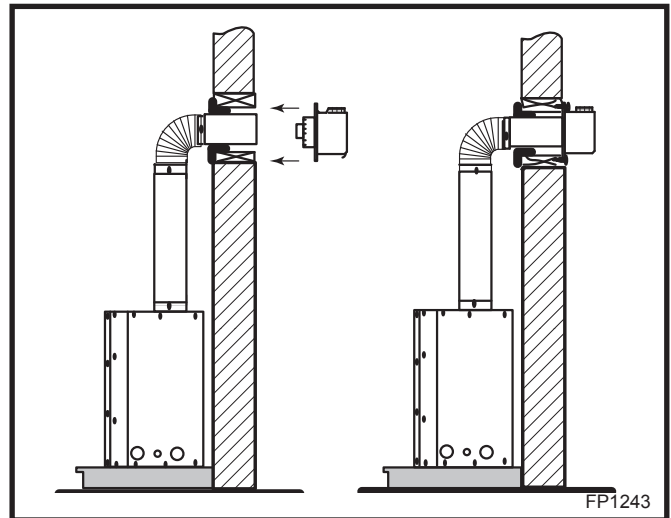


Fig. 26 Apply high temperature sealant to collars or terminations.

Support horizontal pipes every 3' (914 mm) with metal pipe straps. Make sure the horizontal vent pipe is installed on a level horizontal plane.

Vertical Sidewall Installation Flex Vent Pipe

NOTE: The 40" (1016 mm) flex vent is used for 90° off the top of the unit then out the back wall.

Follow Step 1 and 2 on Page 15.

Step 3

Install the four (4) spacer springs on the 4" flex vent pipe. When installing the spacer springs around the 4" pipe, stretch the spring to approximately 15" (381 mm), wrap the spring around the pipe and interlock the ends of the spacer spring approximately 2" (51 mm). Measure 6¾" (172 mm) from the end of the pipe. Place the next spring 5" (127 mm) from the previously installed spring. Place the next spring 6" (152 mm) from the last spring. Finally place the last spring 12" (305 mm) from the last spring installed. (Fig. 27)

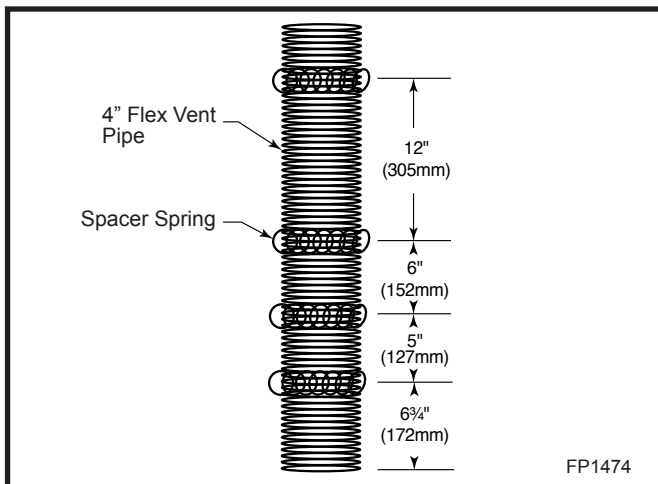


Fig. 27 Install spacer springs.

Step 4

Install the 4" (102 mm) flex vent pipe to the appliance collar as described on Page 12. Secure the end with the first spring 6¾" (172 mm) from the flex pipe end to the unit.

Step 5

Slide the 7" (178 mm) flex vent pipe over the 4" flex vent pipe and secure the 7" collar as described on Page 12.

Step 6

Bend the flex pipe horizontal so the bottom of the horizontal pipe measure 18½" (470 mm) from the top of the unit immediately after the 90° formation. (Fig. 28) Be sure to follow the 1" (25 mm) rise in a 24" (610 mm) horizontal run rule.

Step 7

Install the 4" flex then 7" flex to the termination.

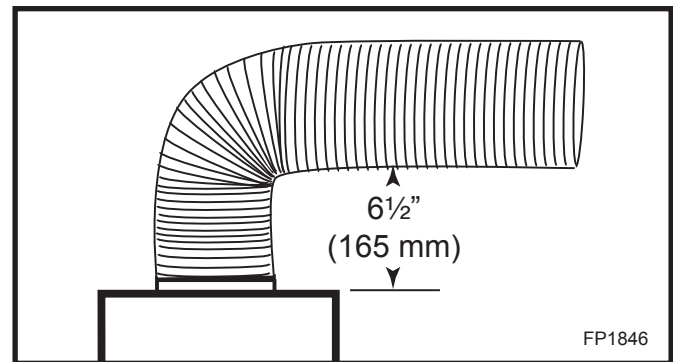


Fig. 28 Bend flex vent at 90° so horizontal portion is 6½" (165 mm) off top of unit.

Below Grade Installations

When it is not possible to meet the required vent terminal clearances of 12" (305 mm) above grade level a snorkel vent kit is recommended. It allows installation depth of down to 7" (178 mm) below grade level. The 7" is measured from the center of the horizontal vent pipe as it penetrates through the wall.



If venting system is installed below ground, we recommend a window well with adequate and proper drainage.

Ensure sidewall venting clearances are observed.

If installing a snorkel a minimum 24" (610 mm) vertical rise is necessary. The maximum horizontal run with the 24" (610 mm) vertical pipe is 36" (914 mm). This measurement is taken from the collar of the fireplace (or transition elbow) to the face of the exterior wall. Refer to the Sidewall Vent Graph for extended horizontal run if the vertical rise exceeds 24" (610 mm).

1. Establish vent hole through the wall. (Fig. 21)
2. Remove soil to a depth of approximately 16" (406 mm) below base of snorkel. Install drain pipe. Install window well (not supplied). Refill hole with 12" (305 mm) of coarse gravel leaving a clearance of approximately 4" (102 mm) below snorkel. (Fig. 29)
3. Install vent system.
4. Ensure a watertight seal is made around the vent pipe coming through the wall.
5. Apply high temperature sealant caulking (supplied) around the 4" and 7" snorkel collars.
6. Slide the snorkel into the vent pipes and secure to the wall.
7. Level the soil to maintain a 4" (102 mm) clearance below snorkel. (Fig. 29)



Do not back fill around snorkel. A clearance of at least 4" (102 mm) must be maintained between snorkel and the soil.

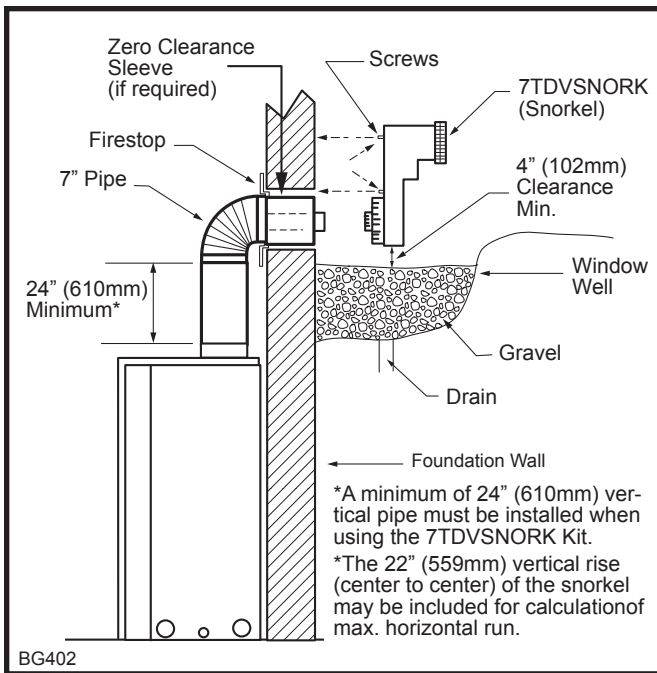


Fig. 29 Below grade installation.

If the foundation is recessed, use recess brackets (not supplied) for securing lower portion of the snorkel. Fasten brackets to wall first, then secure to snorkel with self drilling #8 x 1/2 sheet metal screws. It will be necessary to extend vent pipes out as far as protruding wall face. (Fig. 30)

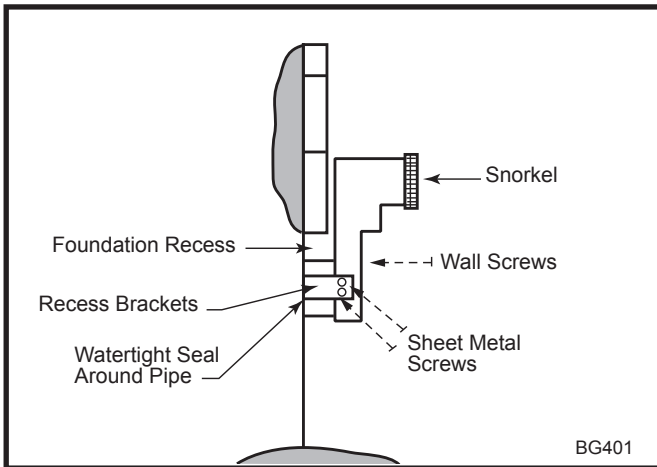


Fig. 30 Snorkel installation, recessed foundation.

Vertical Through-the-Roof Applications

This Gas Fireplace has been approved for:

- Vertical installations up to 40' (12 m) in height. Up to a 10' (3 m) horizontal vent run can be installed within the vent system using a maximum of two 90° elbows. (Fig. 31)

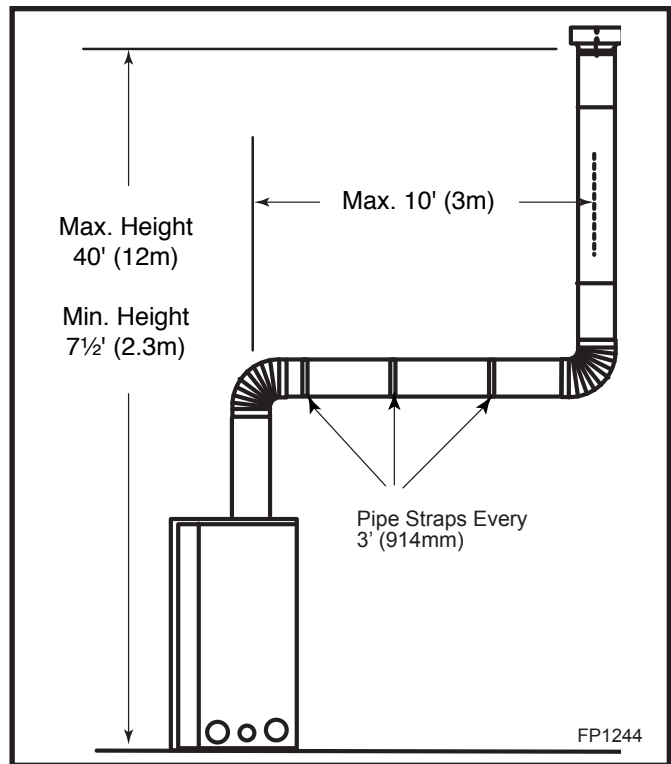


Fig. 31 Support straps for horizontal runs.

- Up to two 45° elbows may be used within the horizontal run. For each 45° elbow used on the horizontal level the maximum horizontal length must be reduced by 18" (457 mm).
Example: Maximum horizontal length
0 x 45° elbows = 10' (3 m)
1 x 45° elbows = 8½' (2.6 m)
2 x 45° elbows = 7' (2.1 m)
- A minimum of an 8' (2.4 m) vertical rise.
- Two sets of 45° elbows offsets within these vertical installations. From 0 to a maximum of 8' (2.4 m) of vent pipe can be used between elbows. (Fig. 32)
- 7DVCS must be used to support offsets. (Fig. 34) This application will require that you first determine the roof pitch and use the appropriate starter kit. (Refer to Venting Components List)
- The minimum height of the vent above the highest point of penetration through the roof is 2' (610 mm). (Fig. 36)

Vertical Through-the-Roof Installation

1. Locate your fireplace.
2. Plumb to center of the (4" (102 mm) flue collar from ceiling above and mark position.
3. Cut opening equal to 9⅝" x 9⅝" (240 x 240 mm).
4. Proceed to plumb for additional openings through the roof. In all cases, the opening must provide a minimum of 1" (25 mm) clearance to the vent pipe, i.e., the hole must be at least 9⅝" x 9⅝" (240 x 240 mm).

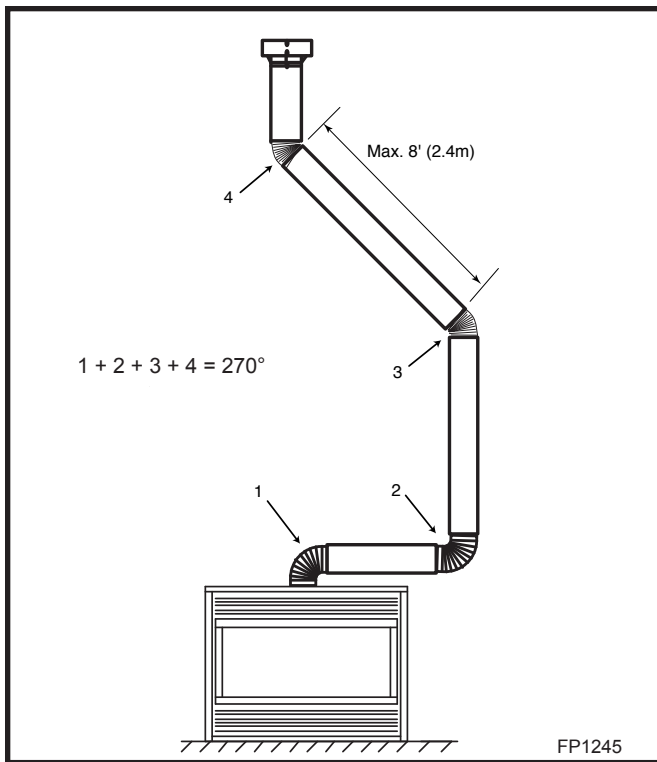


Fig. 32 Typical offset application.

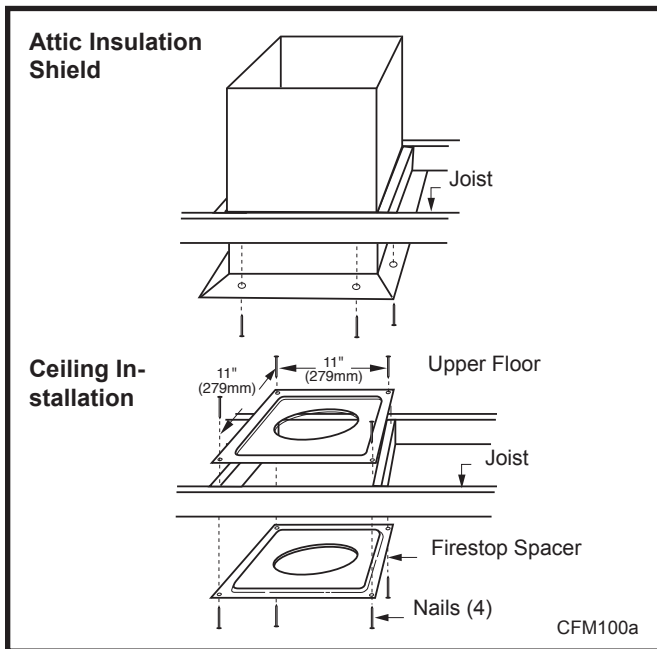


Fig. 33 Place firestop spacer(s) and secure.

5. Place fireplace into position.
6. Place firestop(s) #7DVFS or Attic Insulation Shield #7DVAIS into position and secure. (Fig. 33)
7. Install roof support (Fig. 34) and roof flashing making sure upper flange of flashing is below the shingles. (Fig. 35)
8. Install appropriate pipe sections until the venting is above the flashing. (Fig. 35)

9. Install storm collar and seal around the pipe.
10. Add additional vent lengths for proper height. (Fig. 36)

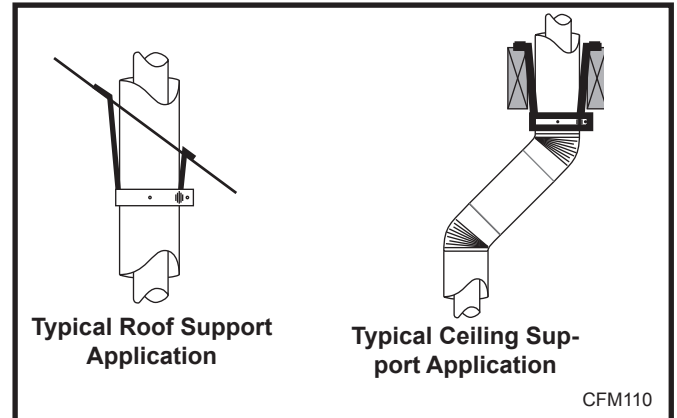


Fig. 34 Roof and ceiling supports.

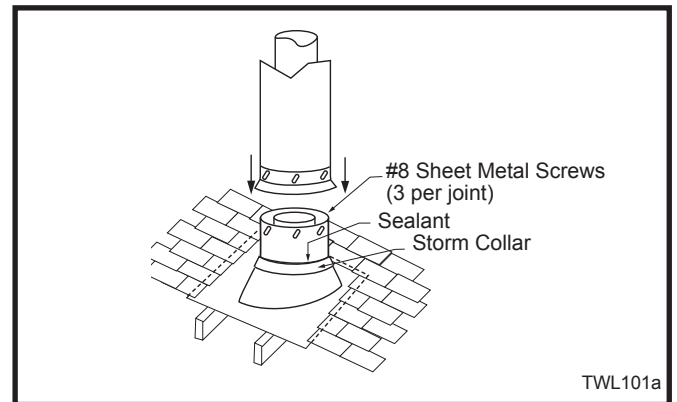


Fig. 35 Roof flashing.

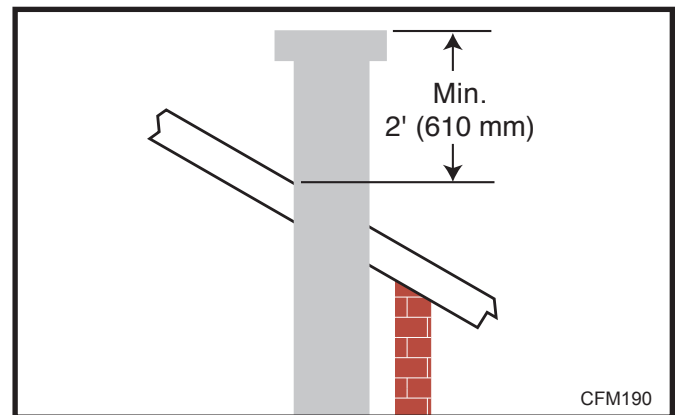


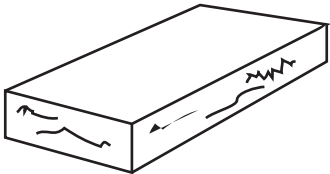
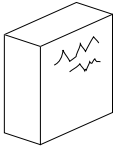
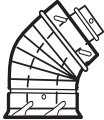
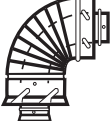
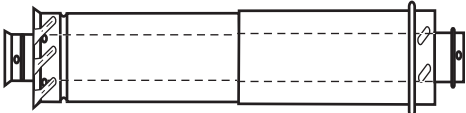
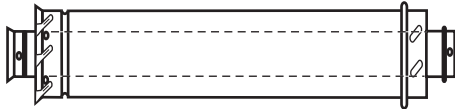
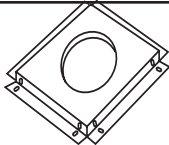
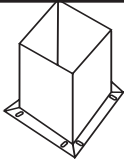

Fig. 36 Minimum termination to roof clearance.



If there is a room above ceiling level, firestop spacer must be installed on both the bottom and the top side of the ceiling joists. If an attic is above ceiling level a 7DVAIS (Attic Insulation Shield) must be installed.

The enlarged ends of the vent section always face downward. (Fig. 35)

Venting Components

	<p>Starter Kit -</p> <p>Model 7TDVSK - Sidewall Venting (Twist Lock Pipe)</p> <p>Model 7FDVSK - Sidewall Venting (Flex Vent Pipe)</p> <p>Models 7TDVTK/TV - Hot Touch Termination Kits</p> <p>Model 7TDVTVTK/TV - Cool Touch Termination Kit</p> <p>Starter Kit - Model 7TDVSKV - Vertical Venting</p> <p>for 7TDVSKV-A order 1/12 to 6/12 roof pitch</p> <p>for 7TDVSKV-B order 7/12 to 12/12 roof pitch</p> <p>for 7TDVSKV-F order flat roof</p> <p>Starter Kit for Below Grade Installation</p> <p>Model 7TDVSKS -Snorkel Kit (Twist Lock Pipe)</p> <p>Model 7FDVSKS -Snorkel Kit (Flex Vent Pipe)</p>
	<p>Starter Pipe</p> <p>Model 7TDVP 20/8 - 24" Starter Pipe Bulk</p> <p>Model 7FDVP 30/8 - 30" Flex Pipe Bulk</p>
	<p>45° Elbow</p> <p>7TDV45 for Rear Vent to Vertical Vent</p> <p>or Vertical/Horizontal Offsets</p>
	<p>90° Transition Elbow</p> <p>7TDVRT90 for Rear Vent to Vertical Vent</p> <p>90° Elbow</p> <p>7TDV90 Vertical/Horizontal Offset</p>
	<p>Telescopic vent sections</p> <p>7TDVP1117 -11" to 17" adjustable length</p> <p>7TDVP3567 -35" to 67" adjustable length</p>
	<p>Pipe sections for vertical or horizontal venting</p> <p>Model 7TDVP8" - 4 per box</p> <p>Model 7TDVP12" - 4 per box</p> <p>Model 7TDVP24" - 4 per box</p> <p>Model 7TDVP36"</p> <p>Model 7TDVP48"</p>
	<p>Firestop Spacer</p> <p>Model 7DVFS</p>
	<p>Attic Insulation Shield</p> <p>Model 7DVAIS</p>
	<p>Vertical/Horizontal Combination Offset Support</p> <p>Model 7DVCS</p>

Operating Instructions

Glass Information



Only glass approved by CFM Corporation should be used on this fireplace.

- The use of any non-approved replacement glass will void all product warranties.
- Care must be taken to avoid breakage of the glass.
- **Do not operate appliance with glass front removed, cracked or broken.**
- **Replacement glass (complete with frame window) is available through your CFM Corporation dealer and should only be installed by a licensed qualified service person.**

! WARNING



HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

Window Frame Assembly Removal

1. Turn the fireplace OFF (including the pilot)
2. If the unit has been operating allow time for the components to cool.
3. Remove the valve access panel. (Fig. 37)
4. Rotate the two clamps securing the lower edge of the frame by pulling out on the handles. (Fig. 38)
5. Tilt the glass frame out slightly at the bottom, lift the frame up and away from the fireplace.
6. To replace the glass frame reverse the procedure.

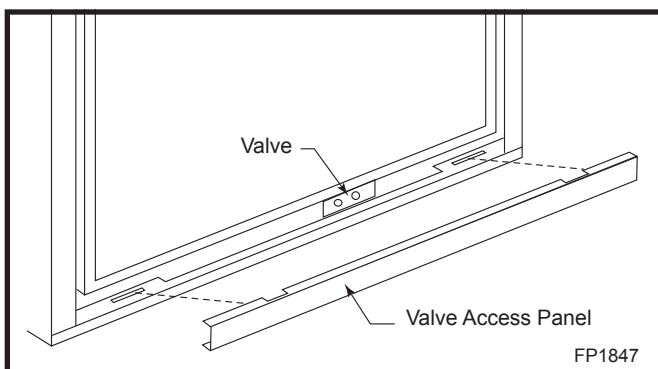


Fig. 37 Remove valve access panel.

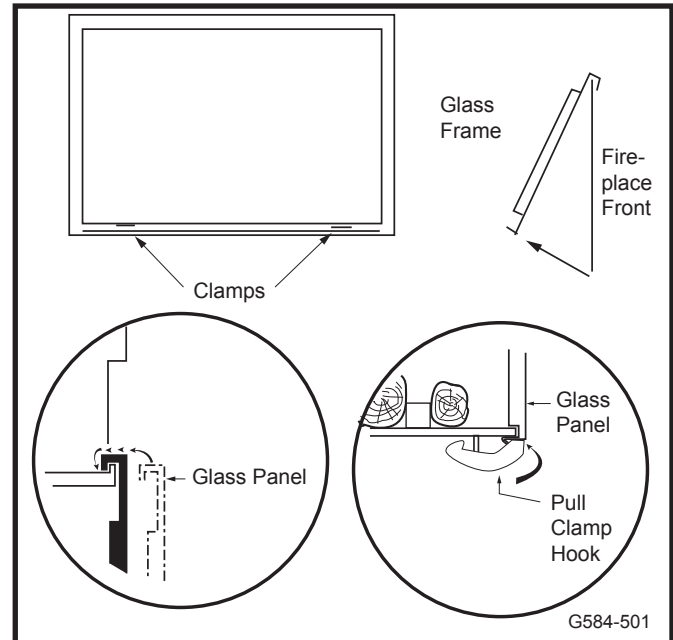


Fig. 38 Window frame assembly removal.

Glass Cleaning

It is necessary to periodically clean the glass. During start-up condensation, which is normal, forms on the inside of the glass. This condensation causes lint, dust and other airborne particles to cling to the glass surface.

Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-ammonia based household cleaner and warm water (We recommend gas fireplace glass cleaner) within the first few weeks of operation.

After the initial cleaning process the glass should be cleaned two or three times during each operating season depending on the environment in the house.




Clean the glass after the first two weeks of operation.

Do not clean glass when hot.

Do not use abrasive cleaners.

Do not strike or slam glass.

Installation of Logs, Lava Rock & Ember Material

 The logs are fragile and should be handled with care. Keep the packaging material out of the reach of children and dispose of the material in a safe manner.

Log Installation

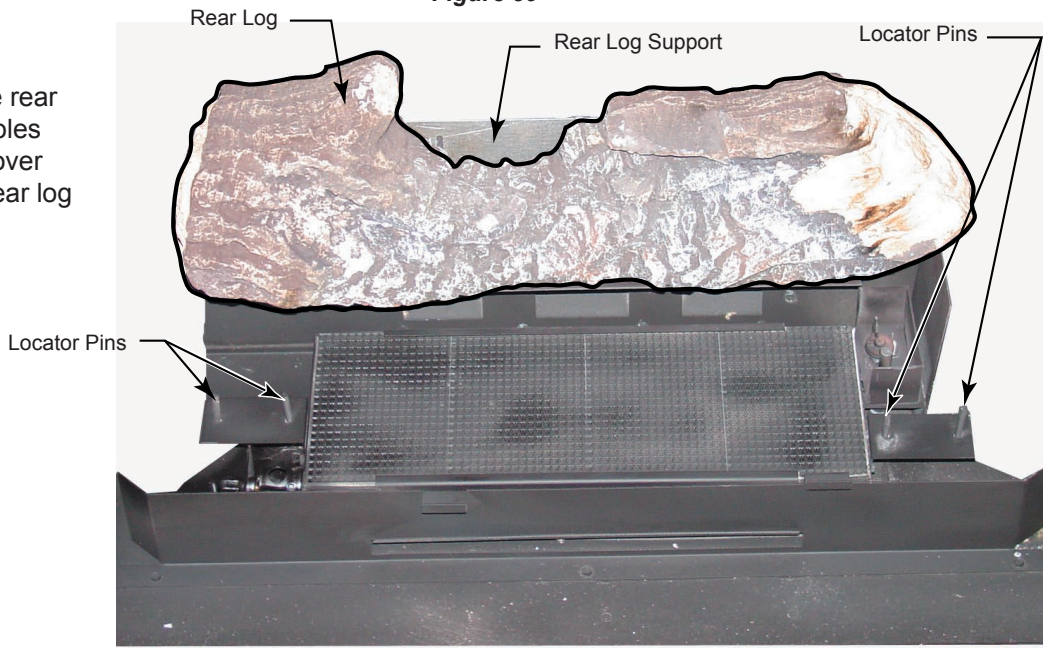
1. Open the log box and remove each log from its packaging material. Set aside the ember material and the lava rock bags.

 As with all plastic bags - these are not toys and should be kept away from children and infants.

2. Place the rear log on the rear log support. Place the holes in the bottom of the log over the locator pins on the rear log support. (Fig. 39)

Log Identification Chart	
Logs	Part #
Rear Log	10010626
Left Front Log	10010629
Right Front Log	10010630
Left Cross Log	10010627
Right Cross Log	10010628

Figure 39



LG516

Figure 40



LG517

3. Place the left front log on the left side of burner. (Fig. 40) Place the holes in the bottom of the log over the front left locator pins on the burner. (Fig. 39)
4. Place the right front log. Place the two holes in the bottom of the log over the locator pins on the left burner housing bracket. (Fig. 40)

Figure 41

5. Place ember material on top of front burner. (Fig. 41) Separate the ember material into small pieces approximately 1/2" (13 mm) diameter and keep 1/2" (13 mm) space between the ember pieces.



LG518

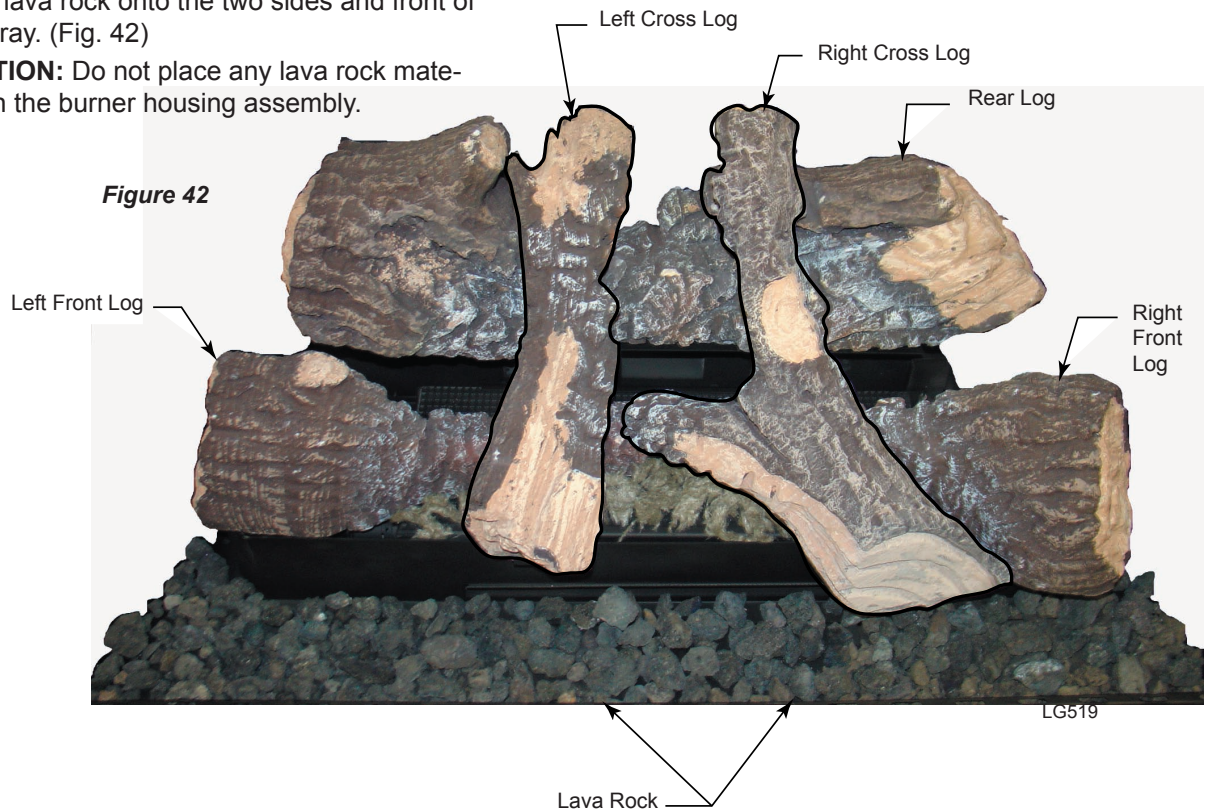
Ember Material

6. Rest the bottom edge of the left cross log on the bracket. Rest the top of the long on the top of the back log.
7. Place the right cross log. Place the bottom rectangular slot of this log on the bracket. Rest the top portion of the cross log on top of the rear log. (Fig. 42)
8. Place large lava rock onto the two sides and front of the burner tray. (Fig. 42)



CAUTION: Do not place any lava rock material on the burner housing assembly.

Figure 42



LG519

Lava Rock

Flame Characteristics

It is important to periodically perform a visual check of the pilot and burner flames. Compare them to Figures 43 and 44.

If the flame patterns appear abnormal contact a qualified service provider for service and adjustment.

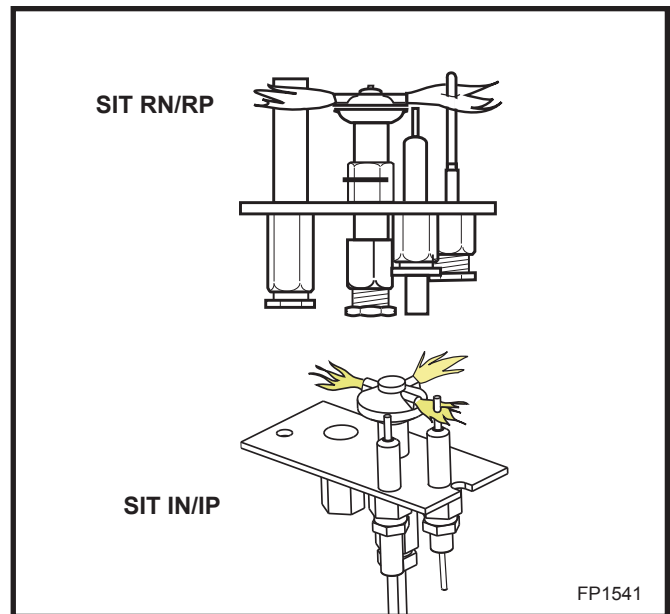


Fig. 43 Correct pilot flame appearance.



Lighting and Operating Instructions

For Fireplaces Equipped with the SIT 820 Valve FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.


WHAT TO DO IF YOU SMELL GAS

- Do not try to light any fireplace
- Do not touch any electric switch
- Do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone.

Follow the gas supplier's instructions.

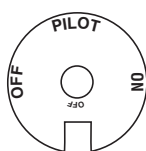
- If you cannot reach your gas supplier, call the Fire Department
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.
 - D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

Lighting Instructions

1. **STOP!** Read the safety information above.
2. Turn off all electrical power to the fireplace.
3. For MN/MP/TN/TP appliances ONLY, go on to Step 4. For RN/RP appliances turn the ON/OFF switch to "OFF" position or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise  to "OFF".




Euro SIT



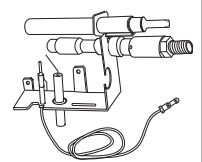
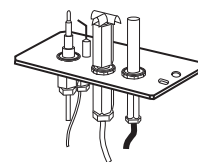
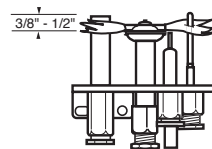
SIT NOVA



Honeywell

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.
7. Remove glass door before lighting pilot. (See Glass Frame Removal section).
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counterclockwise  to "PILOT".

10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.



- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.
11. Replace glass door.
 12. Turn gas control knob to "ON" position.
 13. For RN/RP appliances turn the ON/OFF switch to "ON" position or set thermostat to desired setting.
 14. Turn on all electrical power to the fireplace.

To Turn Off Gas To Heater

1. Turn the ON/OFF switch to Off position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open control access panel.
4. Push in gas control knob slightly and turn clockwise  to "OFF". Do not force.
5. Close control access panel.

Lighting & Operating Instructions

For Fireplaces equipped with AF4000 Gas Valve

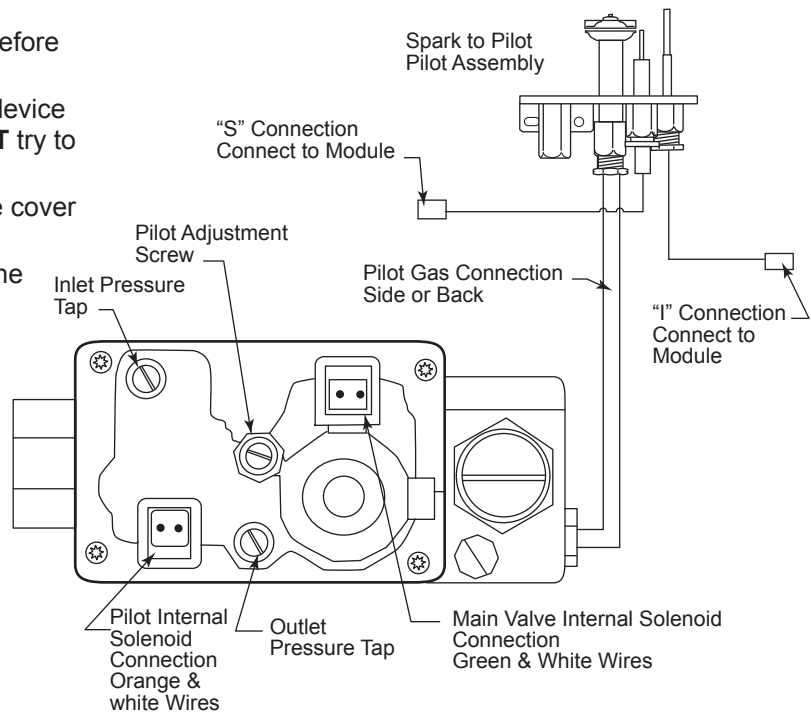
Warning: If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury and loss of life.

For Your Safety, Read the Following Warnings before Lighting the Appliance

- A. This fireplace is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.
- B. **BEFORE OPERATING**, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than the air and will settle on the floor.
What to do if you smell gas
 - **Do not try to light any appliance.**
 - **Do not operate any electrical switch.**
 - **Do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas suppliers instructions.**
- **If you cannot contact your gas supplier call the Fire Department**
- C. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control that has been under water.

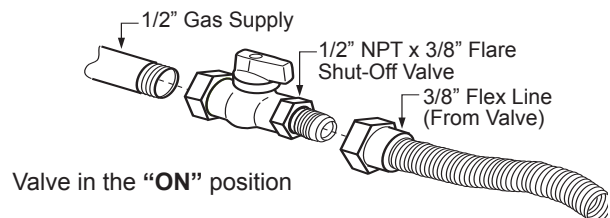
Lighting Instructions

1. **STOP!** Read the safety information above before continuing.
2. This appliance is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.
3. Access the gas control by removing the side cover access door on the left side of the unit.
4. Turn the remote switch, if used, OFF. Turn the wireless remote, if used, OFF.
5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP. Follow instruction B in the safety warnings above. If you do not smell gas, go on to the next step.
6. Close the access door.
7. If the appliance will not operate, follow the instructions **TURNING OFF THE GAS TO THE APPLIANCE**, and call your service technician or gas supplier.



Turning Off the Gas to the Appliance

1. Turn the remote switch to the OFF position.
2. Turn OFF all electrical power to the fireplace if service is required.
3. Open the lower access panel.
4. Turn the shut-off valve on the flexible gas line to the OFF position.



Troubleshooting

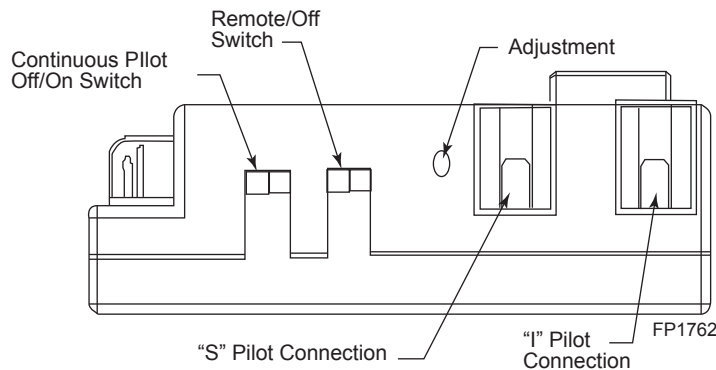
AF4000 Valve

If erratic system behavior is observed that cannot be resolved by the methods outlined below, ensure that there is not a transmitter with batteries installed that may be interfering. If a transmitter is packed with batteries installed, its buttons may be depressed sending a constant signal which can interfere with the transmission of desired signals. A transmitter with new batteries can have a range of over 100' (30.4 m).

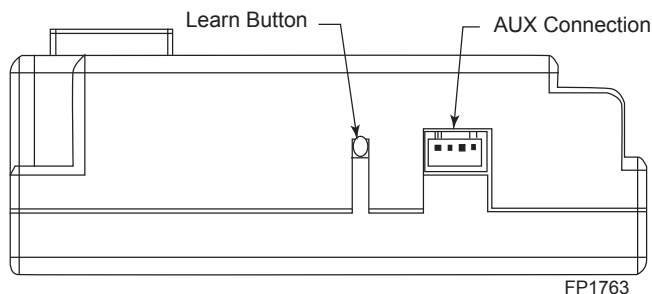
Module will not learn trans-
mitter

- Ensure the REMOTE/OFF switch on the side of the module (Fig. 45) is set to REMOTE.
- Make sure the batteries in both the transmitter and receiver are installed in the proper direction and are not drained. Individual battery voltage should be no less than 1.4V for AA and AAA batteries, 2.8V for button cells, and 9.0V for 12V batteries.
- Verify the transmitter indicates a signal is being sent. With thermostat transmitters, the LCD display should indicate ON or OFF depending on which button is being pressed. The LED indicator should illuminate on wall transmitters and on/off hand-held transmitters. Buttons should be pressed and held for 1 to 2 seconds to ensure a complete signal is sent.
- Make sure the transmitter is within the 20' (6 m) operational range of the receiver.
- Ensure the 4-pin lead-set is securely connected from the battery pack to the control module's AUX connection. (Fig. 45) If the A/C power adapter is used, make sure the leads from the adapter are securely connected to the POWER terminals on the control module. (Fig. 47)
- Press and hold the LEARN button on the module (Fig. 46) for approximately 10 seconds to clear the memory (you should hear a series of beeps from the receiver). Then press and release the learn button (you should hear a single beep from the receiver), immediately press either the ON or OFF button on the transmitter (you should hear a series of beeps indicating the transmitter code has been learned).

**Figure 45: AF4000
MOD Module Right
Side**



**Figure 46: AF4000
MOD Module Left Side**

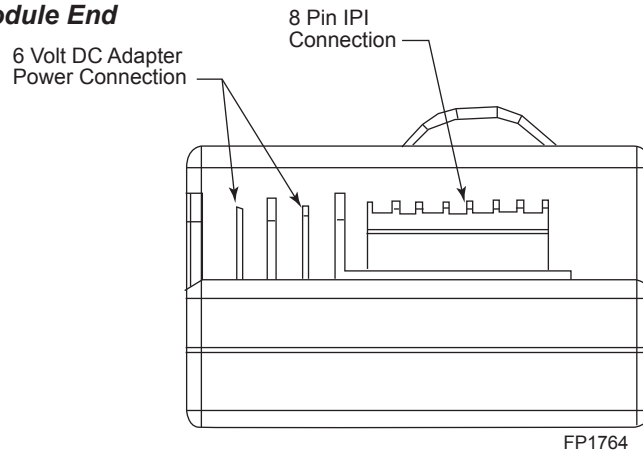


Troubleshooting AF4000 Valve (continued)

Pilot will not light/stay lit

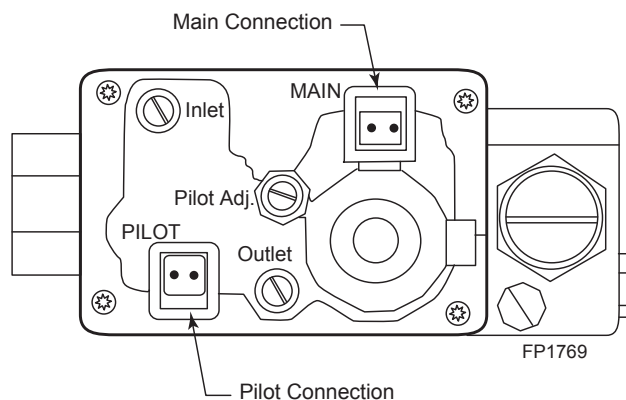
- Verify the gas supply is turned on.
- Verify the receiver is receiving the signal from the transmitter by listening for a beep from the receiver when ON is pressed on the transmitter. If you do not hear a beep, ensure the module has learned the transmitter (see above).
- Ensure the orange lead from the pilot assembly igniter is securely connected to the terminal labeled "I" and the white lead from the flame rectification sensor is securely connected to the terminal labeled "S" on the control module. (Fig. 45)
- Make sure the orange and white leads from the module are securely connected to the terminals labeled "PILOT" on the valve body. (Fig. 48)
- Ensure the black GROUND wire is securely connected to an appropriate metal portion of the valve or pilot assembly. **A proper ground is essential to spark igniter operation.**
- Make certain the pilot flame is in contact with the flame rectification sensor on the pilot assembly. This valve is equipped with a pilot flame adjustment screw. (Fig. 48) If the pilot flame is too small it will not contact the flame rectification sensor and will not complete the safety circuit.

Figure 47: AF4000 MOD Module End

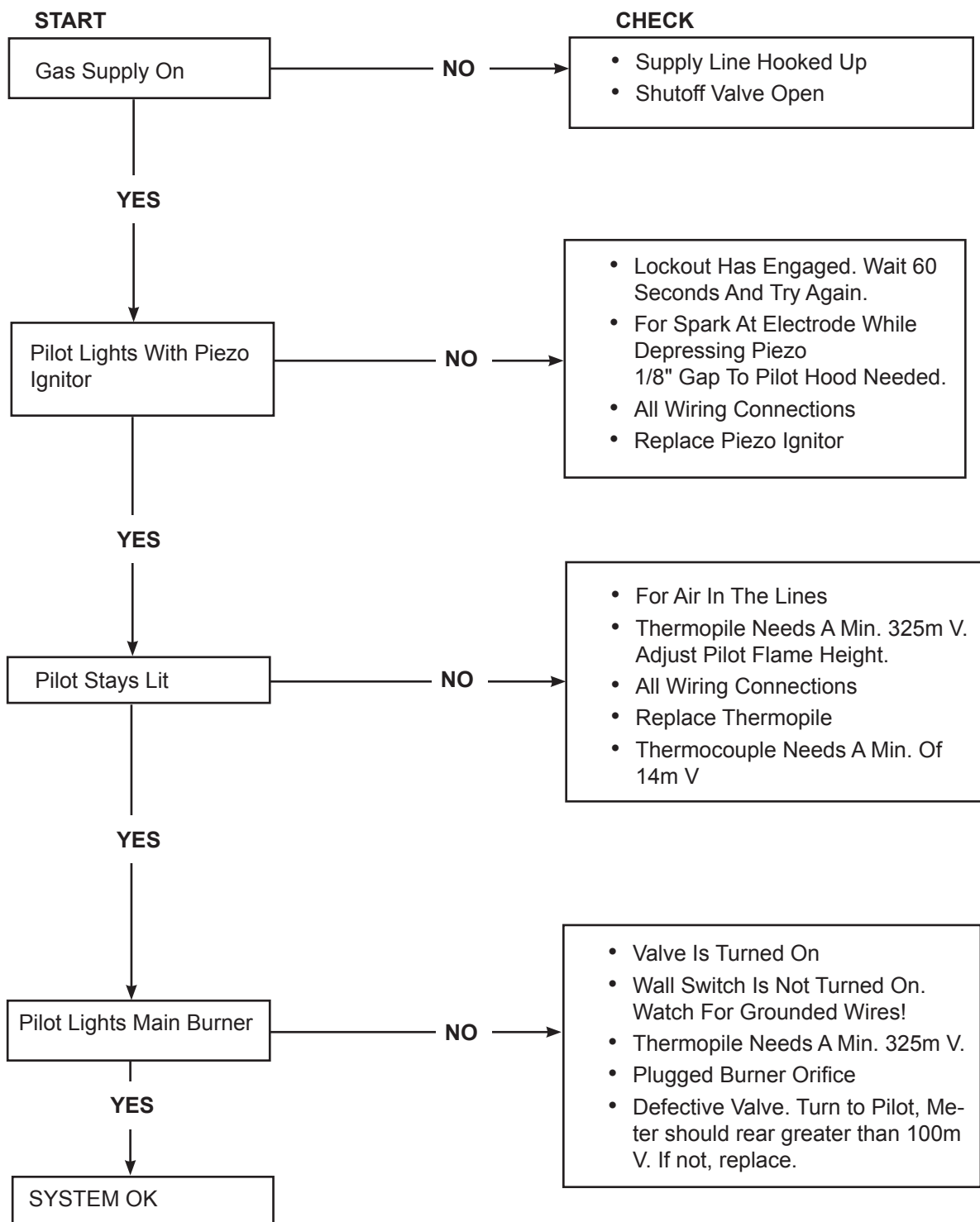


Troubleshooting AF4000 Valve (continued)

Pilot flame is always on/ will not extinguish	<ul style="list-style-type: none"> Ensure the CONTINUOUS PILOT switch on the control module (Fig. 45) is set to OFF.
Main flame will not light	<ul style="list-style-type: none"> Verify the gas supply is turned on. Ensure the pilot flame will ignite. If not, see pilot flame troubleshooting above. Make sure the green and white leads from the module are securely connected to the terminals labeled "MAIN: on the valve body. (Fig. 48) Make certain the pilot flame is in contact with the flame rectification sensor on the pilot assembly. This valve is equipped with a pilot flame adjustment screw. (Fig. 48) If the pilot flame is too small it will not contact the flame rectification sensor and will not complete the safety circuit. Ensure the pilot flame is properly located to ignite the main flame.
Flame height adjustment will not work/works backwards	<ul style="list-style-type: none"> Ensure the black and red leads from the battery pack or the AF4000 110H/L module are securely connected to the red and black leads from the motor drive or H/L latching solenoid located on the valve body (red to red and black to black). Verify the selector switch on the battery pack is set to DC MOTOR DRIVE or LATCHING SOLENOID, depending upon which device is installed. Check functionality with all transmitters to determine if there is an issue with the main control system or an individual transmitter. If the issue is with an individual transmitter, make sure the batteries in both the transmitter and receiver are installed in the proper direction and are not drained. Individual battery voltage should be no less than 1.4V for AA and AAA batteries, 2.8V for button cells, and 9.0V for 12V batteries.

Figure 48: AF4000 Valve Face

Troubleshooting - Honeywell VS8421

**Remove Window Frame Assembly Before Service Work**

Conversions must be completed by qualified personnel

Fuel Conversion Instructions

To convert the RDV4136 units for use with a different gas follow these instructions. Before proceeding, turn control knob on valve to "OFF" and turn gas supply OFF. Turn OFF any electricity that may be going to the appliance.

CAUTION: Logs may be HOT! Allow to cool before proceeding.

1. Remove valve access panel to gain access to valve. Remove window frame assembly. (See "Window Frame Assembly Removal", Page 21, Fig. 38)
2. Remove logs if previously installed.

SkyTech Valve

1. Remove rubber cap from valve. (Fig. 49)
2. Push pin in and turn so line on the end of the pin lines up with the appropriate gas. NAT for natural gas and LP for propane.
3. Replace cap.
4. Remove minimum rate screw and replace with new minimum rate screw supplied in kit. Refer to Table 1 on Page 32.

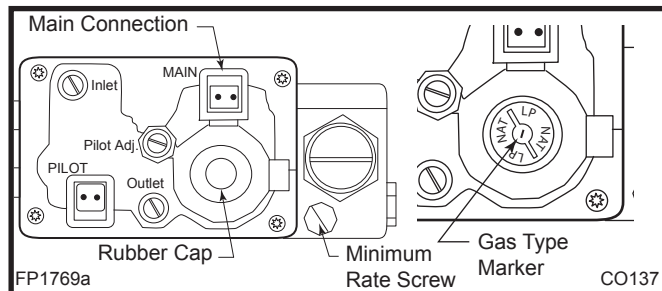


Fig. 49 Remove rubber cap and adjust gas type marker.

NOVA SIT820 Valve

1. Using the TORX T20 bit, remove and discard the three (3) pressure regulator mounting screws (A), pressure regulator tower (B) and the spring and diaphragm assembly (C). (Fig. 50)
2. Insure the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit.

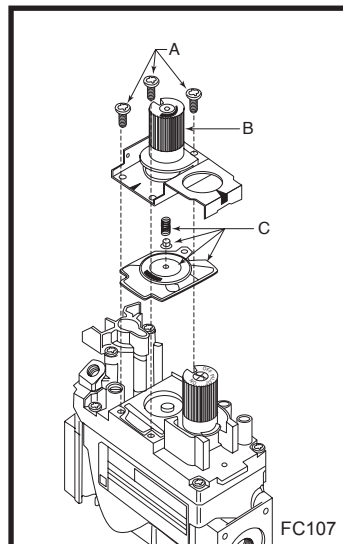


Fig. 50 Remove mounting screws, pressure regulator tower and spring and diaphragm assembly.

Tighten the screws securely. (Ref. torque = 25 in/lb) (Fig. 51)

3. Install the enclosed conversion label (F) to the valve body where it can easily be seen. (Fig. 51)

Valve conversion is complete.

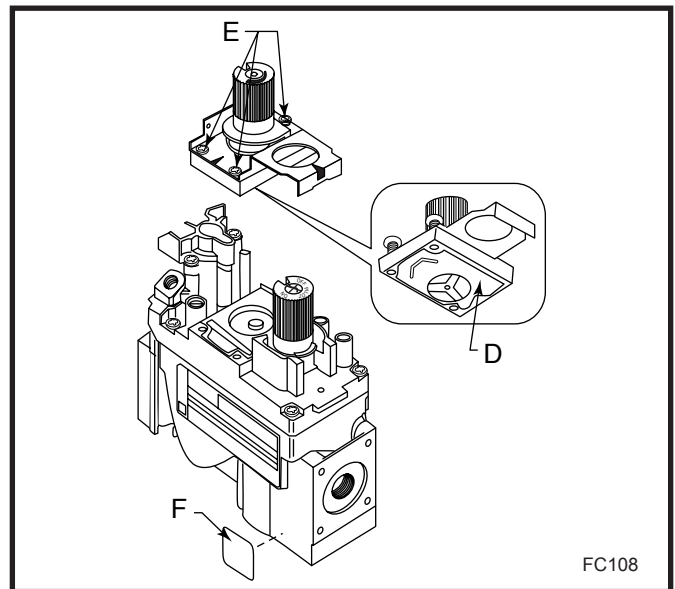


Fig. 51 Replace ignitor.

Burner Orifice Conversion

1. Remove two (2) burner screws. (Fig. 52)
2. Remove burner housing assembly. (Fig. 52)
3. Remove burner orifice from manifold assembly using 7/16" wrench. (Fig. 52)

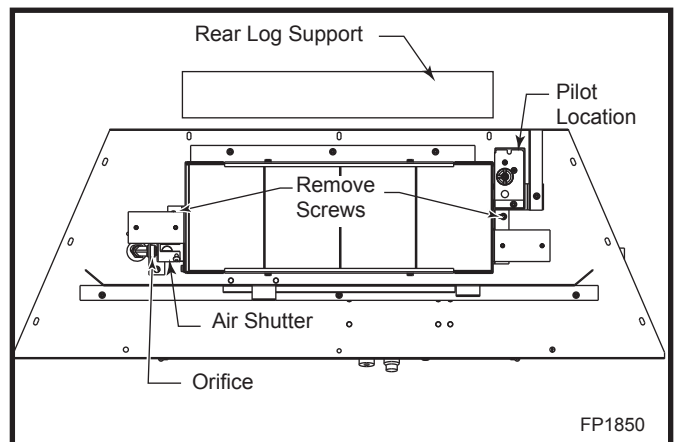


Fig. 52 RDV4136 burner assembly.

4. Install conversion orifices in place of orifices just removed.
5. Remove air shutters from burner pan by removing shutter retaining screw then air shutter. (Fig. 52)
6. Replace air shutter.
Natural Gas: Hole on top of mixing tube set at 1/4 open. (Fig. 53)
Propane Gas: Remove air shutter and discard.
7. Reinstall burner housing assembly and front burner tube.

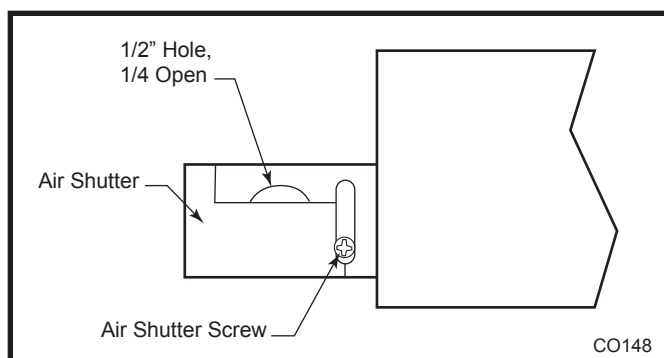


Fig. 53 Air shutter setting.

Pilot Orifice Conversion

1. Remove pilot hood by lifting up. (Fig. 54)
2. Remove pilot orifice with Allen wrench. (Fig. 55)
3. Install conversion pilot orifice.

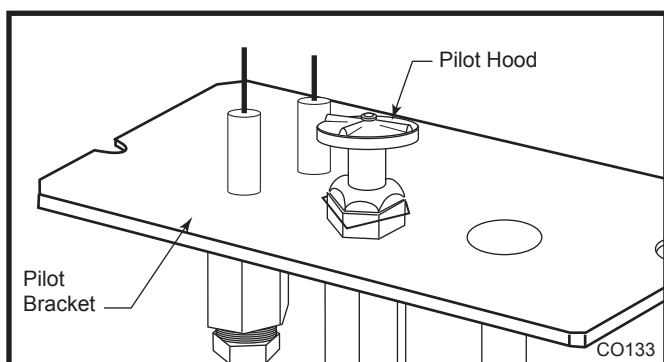


Fig. 54 Remove pilot hood.

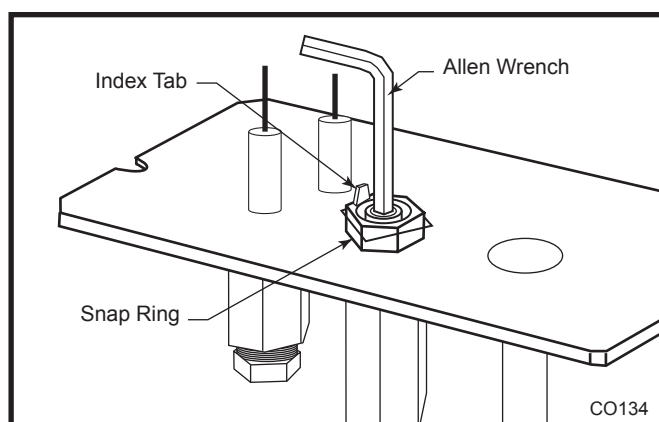


Fig. 55 Remove pilot orifice.

4. Reinstall pilot hood and be sure to align with index tab.
 5. Turn the gas supply valve and gas valve on and test for leaks. Use a 50/50 solution of liquid soap and water to test for leaks at gas fittings and joints. Apply water/soap solution with brush only - **do not over apply. NEVER test with an open flame.**
 6. Follow procedure on rating plate to light the pilot. Check for leaks.
 7. Turn main burner on and check for leaks.
 8. Reinstall bracket rear log, front grate and logs. Refer to Page 22 for proper log placement.
- Fuel Conversion complete.

Table 1 Injector Orifice Size Matrix

Conversion to LP						
Kit #	Model	Burner Orifice		Minimum Rate Screw	Input (BTU/hr)	
		Description	Part #		Minimum	Maximum
10010737	RDV4136RN	#53 (.0595")	54833	n/a	19,500	24,000
	RDV4136IN	#53 (.0595")	54833	#54 20013177	19,500	24,000
Conversion to Natural Gas						
Kit #	Model	Burner Orifice		Minimum Rate Screw	Input (BTU/hr)	
		Description	Part #		Minimum	Maximum
10010736	RDV4136RP	#40 (.098")	55616	n/a	15,300	24,000
	RDV4136IP	#40 (.098")	55616	#33 20014169	15,300	24,000

Maintenance

Burner and Burner Compartment

It is important to keep the burner and the burner compartment clean. At least once per year the logs and lava rock/ember material should be removed and the burner compartment vacuumed and wiped out. Remove and replace the logs as per the instructions in this manual.



Always handle the logs with care as they are fragile and may also be hot if the fireplace has been in use.

FK24/FK12 Fan Assembly

The fan unit requires periodic cleaning. At least once per month in the operating season, open the lower louver panels and wipe or vacuum the area around the fan to remove any build up of dust or lint.

Brass Trim

Clean the brass trim pieces using a soft cloth lightly dampened with lemon oil. Do not use water or household cleaners on any brass components.

Contact your local representative to arrange an annual service program.

Cleaning the Standing Pilot Control System

The burner and control system consists of

- burner tube • gas orifice
- pilot assembly • thermopile
- millivolt gas valve

Most of these components may require only an occasional checkup and cleaning and some may require adjustment. **If repair is necessary, it should be performed by a qualified technician.**



Logs May Be HOT!!

1. Turn off pilot light at gas valve side.
2. Let fireplace cool if it has been running.
3. Remove window frame assembly. (Refer to Window Frame Assembly Removal section)
4. Remove logs and ember material.
5. Vacuum burner compartment especially around orifice primary air openings.
6. Visually inspect pilot. Brush or blow away any dust or lint accumulation.
7. Reinstall logs and ember material.
8. Ignite pilot - Refer to Lighting Instructions.
9. Reinstall window frame assembly.

To obtain proper operation, it is imperative that the pilot and burner's flame characteristics are steady, not lifting or floating.

Typically, the top 3/8" or 1/2" of the thermopile should be engulfed in the pilot flame. (Fig. 56)

To adjust pilot burner; (by qualified service technician)

1. Remove pilot adjustment cap.
2. Adjust pilot screw to provide properly sized flame.
3. Replace pilot adjustment cap.

The primary air shutter is set at factory and should only be adjusted, if necessary, by a qualified service technician.

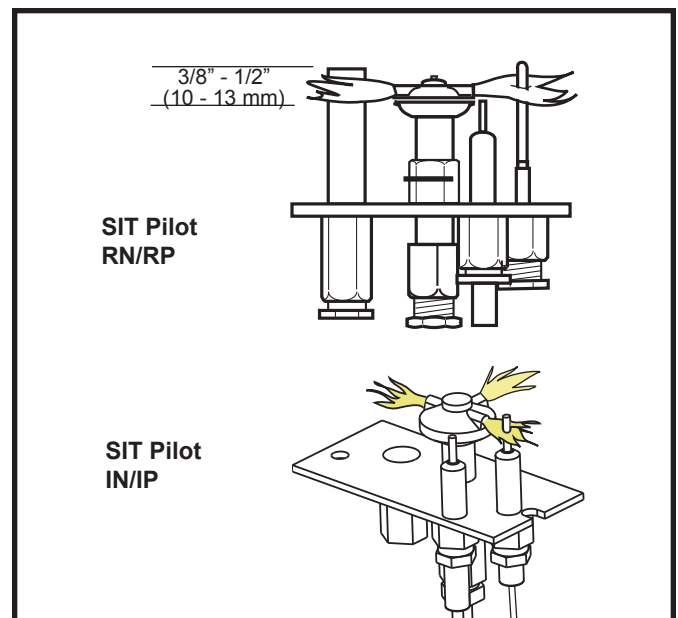
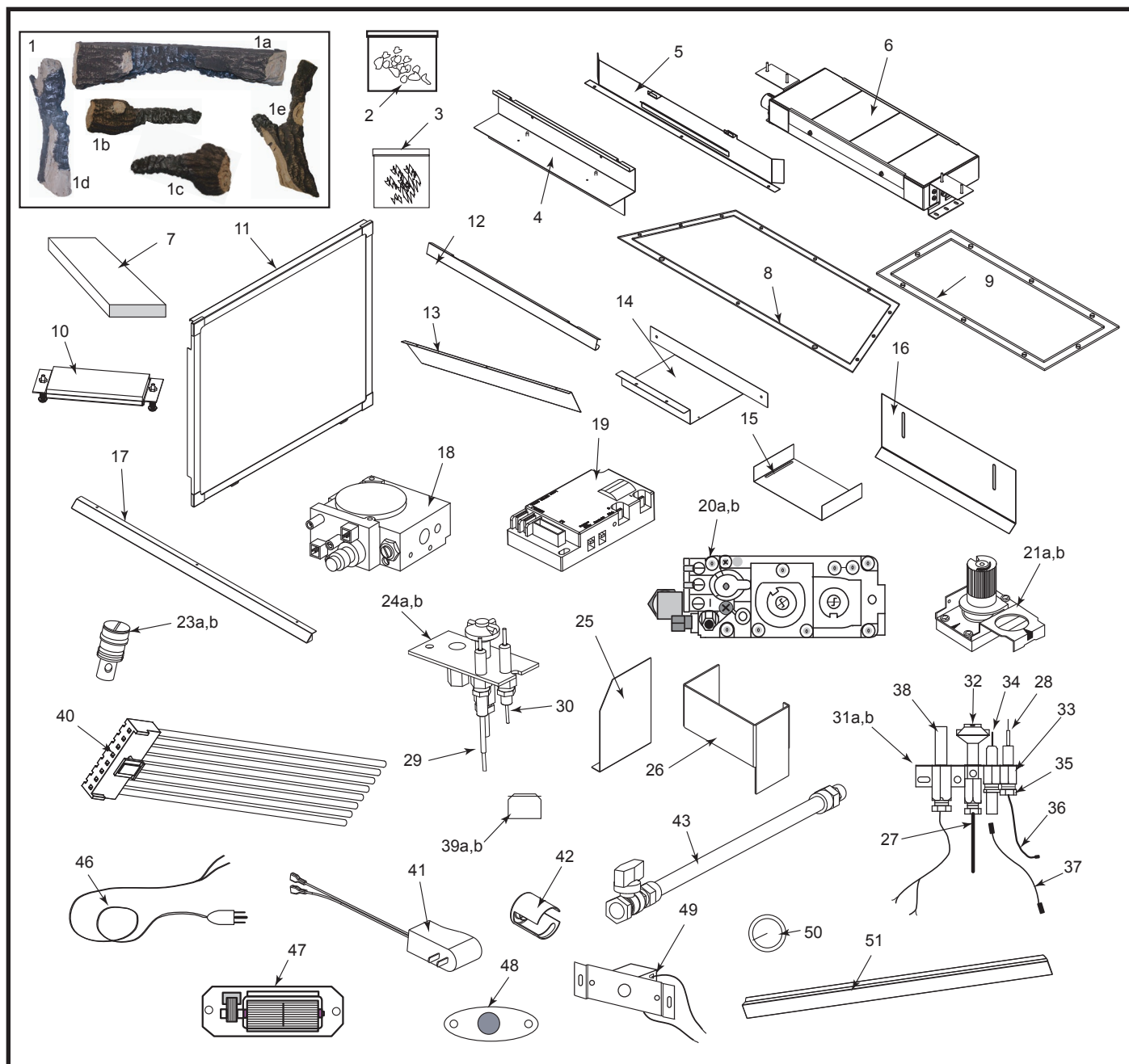


Fig. 56 Correct pilot flame appearance.



CFM Corporation reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

RDV4136

Units: GFSJ5J1(RP)

Ref.	Description	RDV4136
1.	Log Set (complete)	10010631
1a.	Rear Log	10010626
1b.	Left Cross Log	10010627
1c.	Right Cross Log	10010628
1d.	Left Front Log	10010629
1e.	Right Front Log	10010630
2.	Volcanic Lava Rock Pkg. 3lb	20000376
3.	Embers Package	51915
4.	Support Rear Log Assy	10010605

RDV4136 (continued)

Ref.	Description	RDV4136
5.	Support Front Log	10010601
6.	Burner Housing Assy	10010594
7.	Ceramic Tile (single)	57803
8.	Gasket Burner Base	10010592
9.	Gasket Burner Cover	10010604
10.	Relief Plate Assembly (Burner Base)	10004192
11.	Door Assy w/Glass	10010586
12.	Bottom Front Cover	10010569
13.	Deflector Front	10010669
14.	Flue Baffle	10010698
15.	Diverter	10010722
16.	Baffle	10010615
17.	Top Deflector	10010568
18.	Valve AF - 4010	20013151
19.	Main Module	20011895
20a.	Valve - SIT 820 - Nat.	20010563
20b.	Valve - SIT 820 - LP	20010645
21a.	Regulator Head - Nat.	10001006
21b.	Regulator Head - LP	10001007
22a.	Orifice Burner #40 - Nat. (not shown)	55616
22b.	Orifice Burner #53 - LP (not shown)	54833
23a.	Minimum Rate Screw #33 (IN)	20014169
23b.	Minimum Rate Screw #54 (IP)	20013177
24a.	Pilot Assembly SIT (EN)	10002387
24b.	Pilot Assembly SIT (EP)	10002388
25.	Pilot Shield	10010616
26.	Pilot Shield	10010617
27.	Pilot Tubing w/fittings SIT	10001296
28.	Electrode Ignitor (EN/EP)	52465
29.	Cable Ignitor (EN/EP)	10000696
30.	Sensing Electrode (EN/EP)	57885
31a.	Pilot Assembly - Nat.	10002264
31b.	Pilot Assembly LP	10002265
32.	Pilot Top Convertible	10002266
33.	Hood Pilot 3 Way	10002385
34.	Electrode Ignitor w/Cable	10001297
35.	Nut Electrode	57886
36.	Thermocouple - RN/RP	53373
37.	Cable Ignitor - RN/RP	53194
38.	Thermopile - RN/RP	51827
39a.	Orifice Pilot - Nat.	10002268
39b.	Orifice Pilot - LP	10002269
40.	24" Wire Harness 6-Pin 8-Wire	20012258
41.	AC Adapter Plug 25VDC	20011900
42.	Primary Air Cap	10007355
43.	Flexible Gas Line w/ON/OFF Shut-off Valve	20002500
44.	Manifold Tubing w/fittings (not shown)	10010614

RDV4136 (continued)

Ref.	Description	RDV4136
45.	Fan Assembly FK12 (Optional) (not shown)	ZA1110
46.	Electrical Cord (6ft.)	51865
47.	Fan w/Bracket (FK24)	54103
48.	Fan Temp. Sensor	51704
49.	Speed Control	51738
50.	Speed Control Knob	51882
51.	Drywall Front Support	10010570

Fuel Conversion Kits

Conversion Kit, NG to LP	Kit #10010737
Conversion Kit, LP to NG	Kit #10010738

Optional Accessories

Fan Kits

Installation of the fan kit is best completed prior to installing the fireplace. If done after the fireplace is installed, all lava rocks must be fully removed so the burner tray can be easily lifted out.

Fan Assembly

1. Remove valve access panel.
2. Turn OFF the electricity and turn OFF the manual gas valve.
3. Remove the glass door.
4. Remove the log set, embers and lava rock.
5. Remove the rear log support.
6. Remove the 10 sheet metal screws and two (2) 1/4-20 bolts that secure the burner tray to the combustion casing.
7. Remove the burner tray from the fireplace by first tilting up the back. Take care not to damage the formed burner tray gasket. If the gasket is damaged, replace it with Part # 10010592.
8. While holding the burner tray, remove the flex gas line from the shut-off valve (turned OFF in Step 2).
9. **FK12:** Fig. 57

Secure fan to cold air box and plug fan into EB-1. Reassemble fireplace in reverse order. Use a 50/50 soap and water solution to check for leaks.

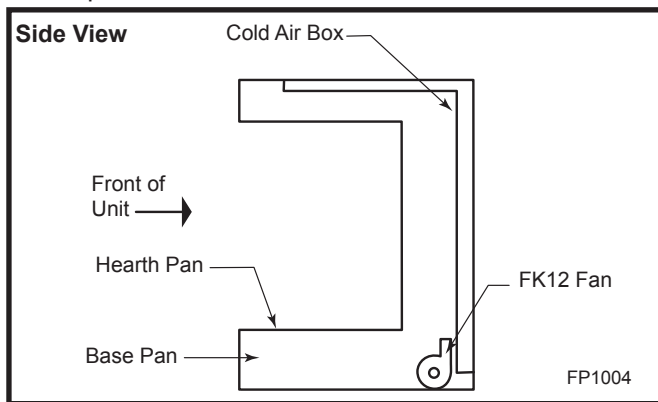


Fig. 57 FK12 Fan Kit placement.

FK24: Fig. 58

Secure fan to cold air box with two (2) washers and nuts provided. Secure the fan speed switch with two (2) nuts provided to the two (2) studs on the base pan of the fireplace. Lay the burner tray upside down in front of the fireplace. Secure the heat sensor over the two (2) studs on the underside of the burner tray assembly and secure with two (2) nuts provided. Reassemble the fireplace in reverse order. Use a 50/50 soap and water solution to check for gas leaks.

Fan installation complete.

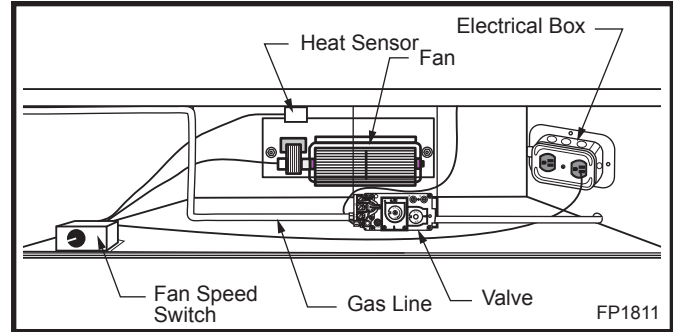


Fig. 58 FK24 fan placement.

Hard (direct) Wire Hook Up

First connect ground wire to ground stud located on the base of either box. Black wire from supply should connect to the variable speed switch. Alternate speed switch wire connects to temperature sensor. Alternate lead from sensor connects to fan. Alternate fan lead connects back to the white supply wire. (Fig. 59)



Any electrical rewiring of this fan must be completed by a qualified electrician.

Turn off all power before hook up.

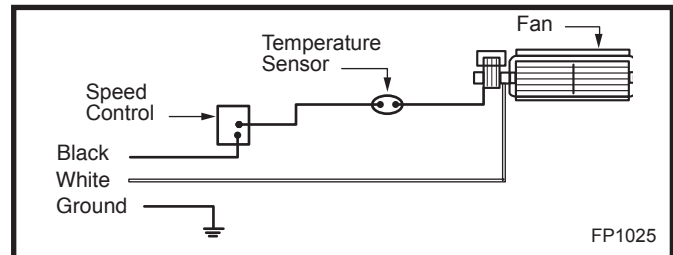


Fig. 59 FK24 fan wiring.

Wiring Instructions



The fireplace, when installed, must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electric Code.



For USA installations follow the local codes and the national electrical code ANSI/NFPA No. 70.



Should this fan require servicing or repair the power supply must be disconnected. For rewiring of any replacement parts refer to Figure 59.



Any electrical re-wiring of this fan must be done by a licensed electrician.

Ceramic Refractory Panels

Ceramic refractory panels are available for the RDV4136 fireplace.

Kit	Color
RDV4136CRS	Sandstone
RDV4136CRR	Colonial Red



Take care when handling the refractory panels as they are fragile until held in place and supported.

Installation, refer to Figures 60& 61

Turn unit off and allow to cool completely if it has been in operation.

1. Remove valve access panel.
2. Remove the front window frame assembly.
3. Remove logs.
4. Place the rear refractory panel in place. Locate the lower edge of the panel in the ledge formed by the top of the rear log support.

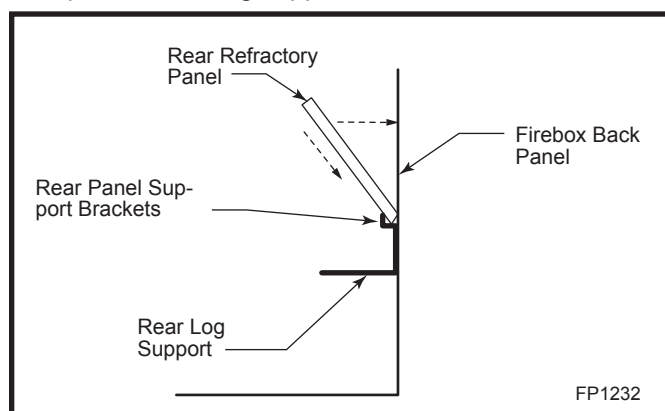


Fig. 60 Rear refractory panel installation.

5. Remove the three (3) screws securing the 'deflector front' to the combustion dome.
6. Slide the side refractory panels into place to hold the rear panel secure. Repeat the procedure on the other side.
7. Replace the 'deflector front'.

Installation complete.

Porcelain Steel Back

An optional black porcelain liner is available for the RDV4136 fireplace.

Kit	Color
RDV4136FLB	Black

These panels line the inside of the firebox just as the ceramic panels. Follow the installation instructions for the ceramic panels to install the porcelain steel back.

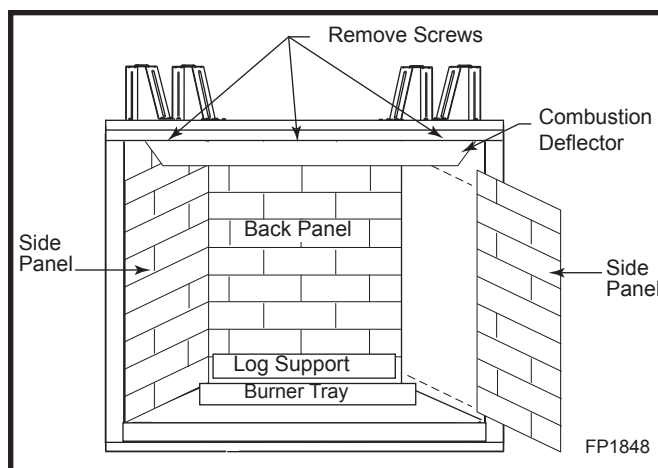


Fig. 61 Ceramic panel installation.

Remote Controls

Optional remote control units are available to control different functions of the appliances. RN/RP models only.

Model	Function(s) Controlled
RC1	ON/OFF
RC2	ON/OFF and temperature
IMTFK	Wall mounted thermostat control

Trim Kits

Georgian Trim Kit

41DVSGTKCB	Classic Black
41DVSGTKB	Ebony

Medium Trim Kit

4136TKMB-A	Black
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Screen Door Kit

RDV4136SDK	Black
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Back-up Battery Kit

All models: DVTBBK

Follow instructions provided with the kit for installation.

LIMITED LIFETIME WARRANTY

PRODUCT COVERED BY THIS WARRANTY

All Vermont Castings gas stoves, gas inserts, and gas fireplaces, and all Majestic brand gas fireplaces equipped with an Insta-Flame Ceramic Burner, or standard steel tube burner.

BASIC WARRANTY

CFM Corporation (hereinafter referred to collectively as the Company) warrants that your new Vermont Castings or Majestic Gas Fireplace/Stove is free from manufacturing and material defects for a period of one year from the date of purchase, subject to the following conditions and limitations.

EXTENDED LIFETIME WARRANTY

The heat exchanger, where applicable, and combustion chamber of every Vermont Castings or Majestic gas product is warranted for life against through wall perforation. All appliances equipped with an Insta-Flame Ceramic Burner have limited lifetime coverage on the ceramic burner plaque. Warrantees are made to the original owner subject to proof of purchase and the conditions and limitations listed on this Warranty Document

COMPONENT WARRANTY

CAST IRON: All external and internal cast iron parts are warranted for a period of three years.

Note: On porcelain enamel finished external parts and accessories The Company offers no Warranty on chipping of enamel surfaces. Inspect all product prior to accepting it for any damage to the enamel.

The salt air environment of coastal areas or a high humidity environment can be corrosive to the porcelain enamel finish. These conditions can cause rusting of the cast iron beneath the porcelain enamel finish, which will cause the finish to flake off.

Dye lot variations with replacement parts and/or accessories can occur and are not covered by warranty.

GLASS DOORS: Glass doors are covered for a period of one year. Glass doors are not warranted for breakage due to misuse or accident. Glass doors are not covered for discoloration or burned in stains due to environmental issues, or improper cleaning and maintenance.

BRASS PLATED PARTS AND ACCESSORIES: Brass parts should be cleaned with Lemon oil only. Brass cleaners cannot be used. Mortar mix and masonry cleaners may corrode the brass finish. The Company will not be responsible for, nor will it warrant any brass parts which are damaged by external chemicals or down draft conditions.

GAS VALVES: Gas valves are covered for a period of one year

ELECTRONIC AND MECHANICAL COMPONENTS: Electronic and mechanical components of the burner assembly are covered for one year. All steel tube burners are warranted for one year.

ACCESSORIES: Unless otherwise noted all components and CFM Corporation company supplied accessories are covered for a period of one year.

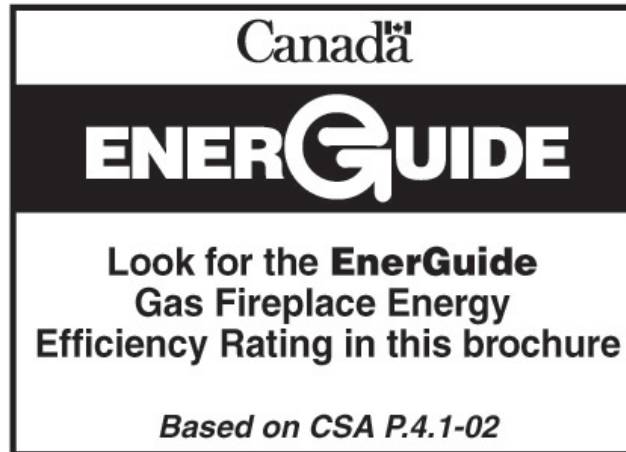
CONDITIONS AND LIMITATIONS

- This Vermont Castings or Majestic product must be installed or serviced by a qualified installer, preferably NFI or WETT (Canada) certified, as prescribed by the local jurisdiction must perform any installation/service work. It must be installed and operated at all times in accordance with the Installation and Operating instructions furnished with the product. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.
- This warranty is non-transferable, and is made to the original owner, provided that the purchase was made through an authorized supplier of the Company.
- The customer must pay for any Authorized Dealer in-home travel fees or service charges for in-home repair work. It is the dealers option whether the repair work will be done in the customer's home or in the dealer's shop.
- If upon inspection, the damage is found to be the fault of the manufacturer, repairs will be authorized at no charge to the customer parts and/or labor.

- Any part and/or component replaced under the provisions of this warranty is covered for six months or the remainder of the original warranty, whichever is longest.
- This warranty is limited to the repair of or replacement of part(s) found to be defective in material or workmanship, provided that such part(s) have been subjected to normal conditions of use and service, after said defect is confirmed by the Company's inspection.
- The company may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s)
- Any installation, labor, construction, transportation, or other related costs/expenses arising from defective part(s), repair, replacement, or otherwise of same, will not be covered by this warranty, nor shall the Company assume responsibility for same. Further, the Company will not be responsible for any incidental, indirect, or consequential damages except as provided by law.
- SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATIONS OF INCIDENTAL AND CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOUR CIRCUMSTANCES. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
- All other warranties-expressed or implied- with respect to the product, its components and accessories, or any obligations/liabilities on the part of the Company are hereby expressly excluded.
- The Company neither assumes, nor authorizes any third party to assume on its behalf, any other liabilities with respect to the sale of this Vermont Castings or Majestic product
- The warranties as outlined within this document do not apply to chimney components or other non CFM Corporation accessories used in conjunction with the installation of this product..
- Damage to the unit while in transit is not covered by this warranty but is subject to claim against the common carrier. Contact the dealer from whom you purchased your fireplace/stove (do not operate the appliance as this might negate the ability to process the claim with the carrier).
- The Company will not be responsible for:
 - a) Down drafts or spillage caused by environmental conditions such as near-by trees, buildings, roof tops, hills, or mountains.
 - b) Inadequate ventilation or negative air pressure caused by mechanical systems such as furnaces, fans, clothes dryers, etc.
- This warranty is void if:
 - a) The fireplace has been operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals.
 - b) The fireplace has been subjected to prolonged periods of dampness or condensation
 - c) Any damages to the fireplace, combustion chamber, heat exchanger or other components due to water, or weather damage, which is the result of but not limited to, improper chimney/venting installation.
 - d) Any alteration, willful abuse, accident, or misuse of the product has occurred.

IF WARRANTY SERVICE IS NEEDED...

- 1) Contact your supplier. Make sure you have your warranty, your sales receipt, and the model/serial number of your CFM Corporation product.
- 2) DO NOT ATTEMPT TO DO ANY SERVICE WORK YOURSELF.



Efficiency Ratings			
Model	EnerGuide Ratings Fireplace Efficiency (%)	Steady State (%) Fan-ON	D.O.E. (AFUE%)
RDV4136RN	66.7	81	63.4
RDV4136RP	66.7	81	63.4
RDV4136IN	71.6	81	63.4
RDV4136IP	71.6	81	63.4

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We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.